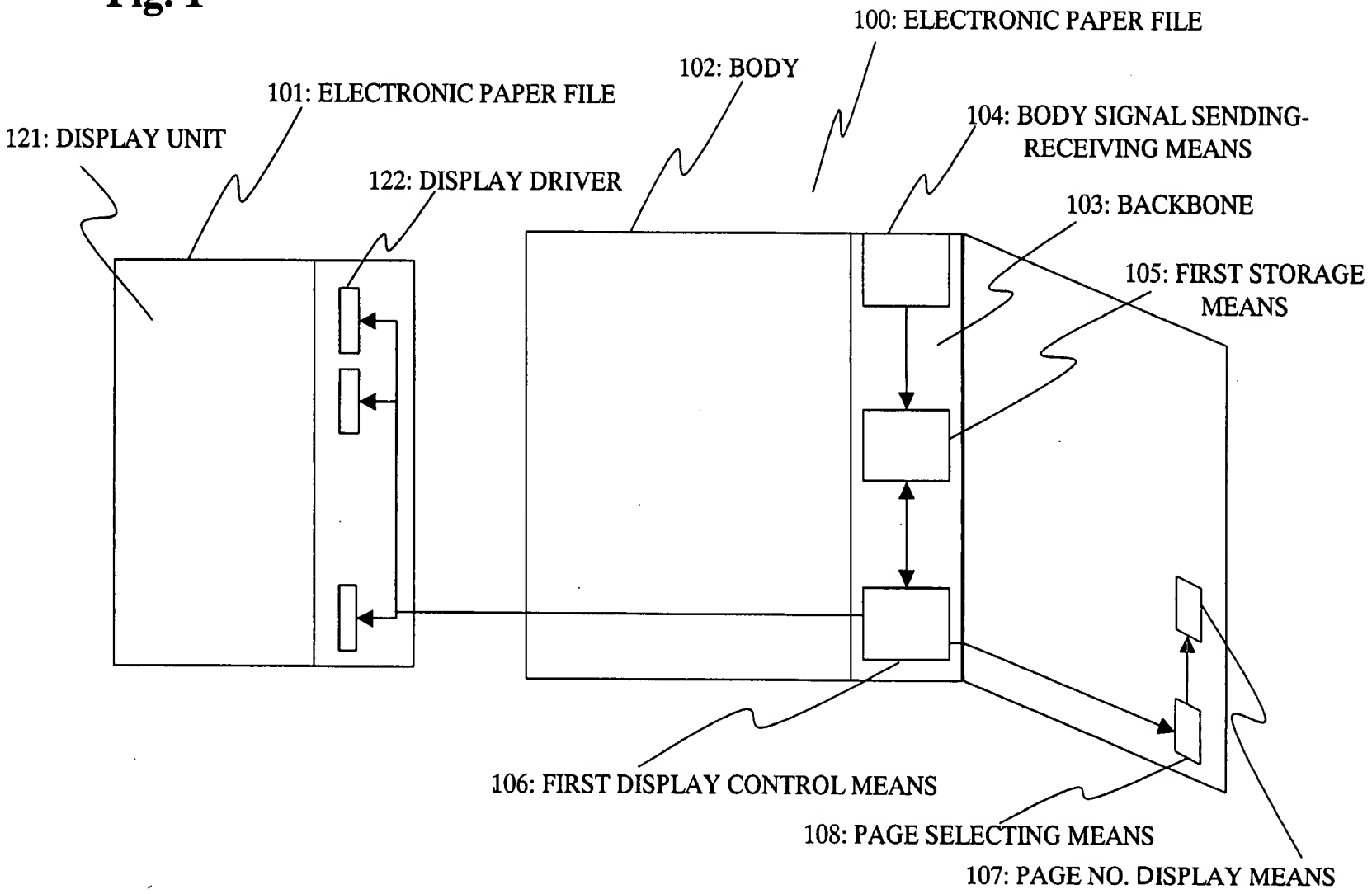
Fig. 1


100: ELECTRONIC PAPER FILE
102: BODY
101: ELECTRONIC PAPER FILE
104: BODY SIGNAL SENDING-RECEIVING MEANS
121: DISPLAY UNIT
122: DISPLAY DRIVER
103: BACKBONE
105: FIRST STORAGE MEANS
106: FIRST DISPLAY CONTROL MEANS
108: PAGE SELECTING MEANS
107: PAGE NO. DISPLAY MEANS

20070 28h2660

Fig. 2

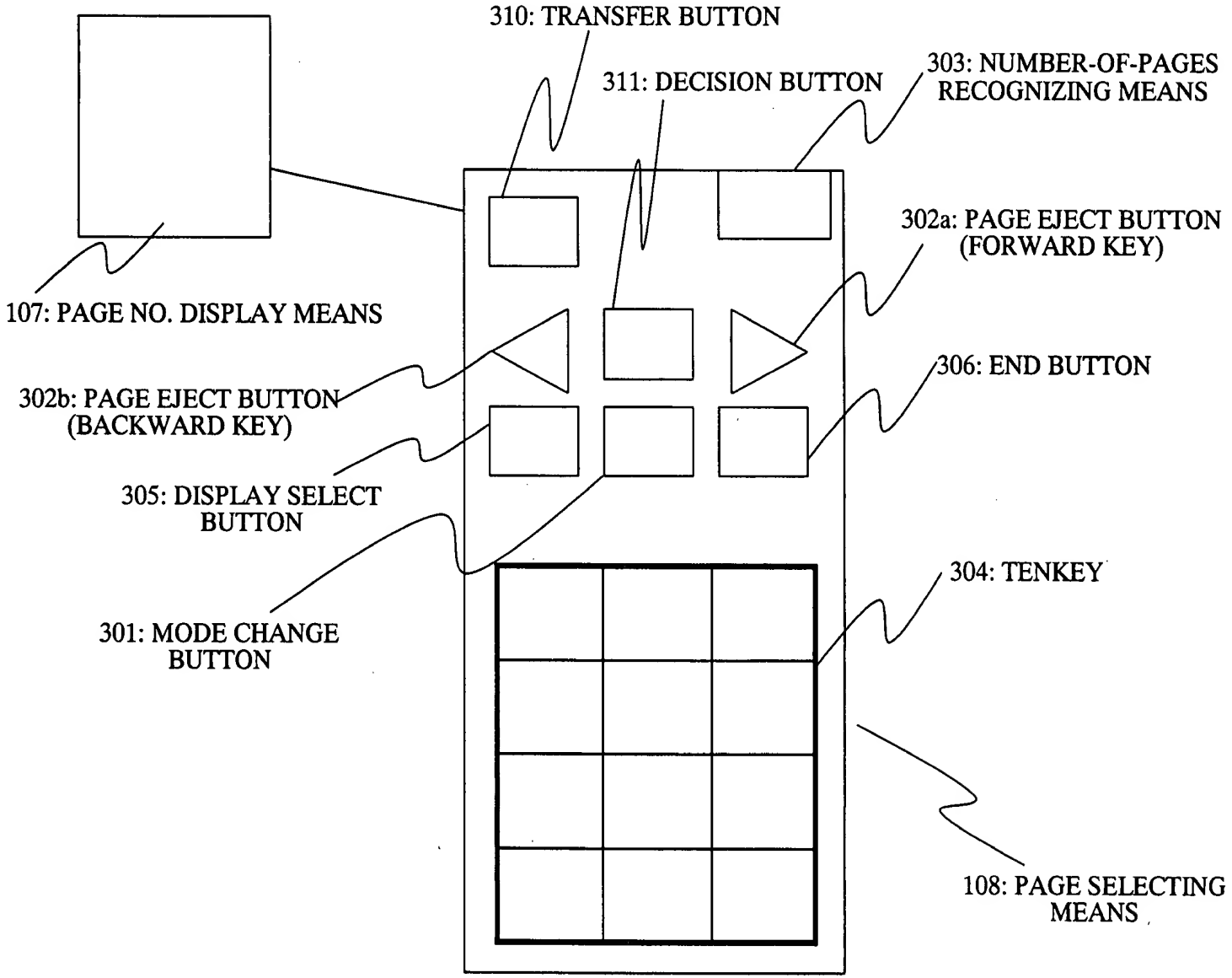


Fig. 3

DEVICE STRUCTUR OF DISPLAY UNIT OF ELECTRONIC PAPER
UNDER THE APPLICATION OF THIS INVENTION

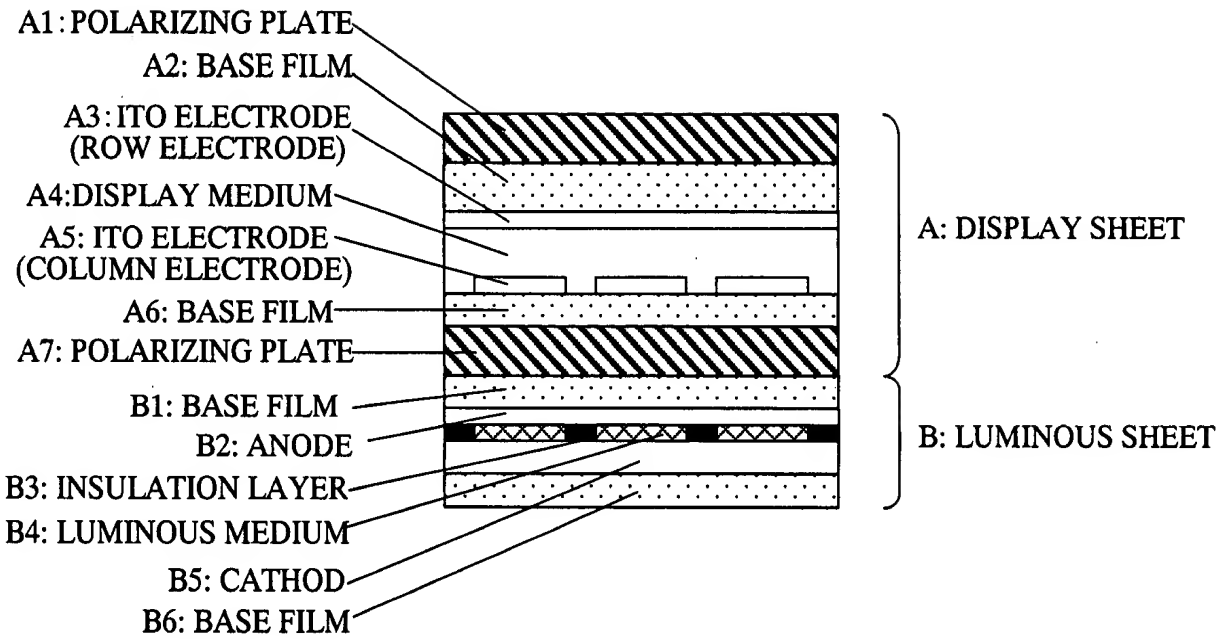


Fig. 4

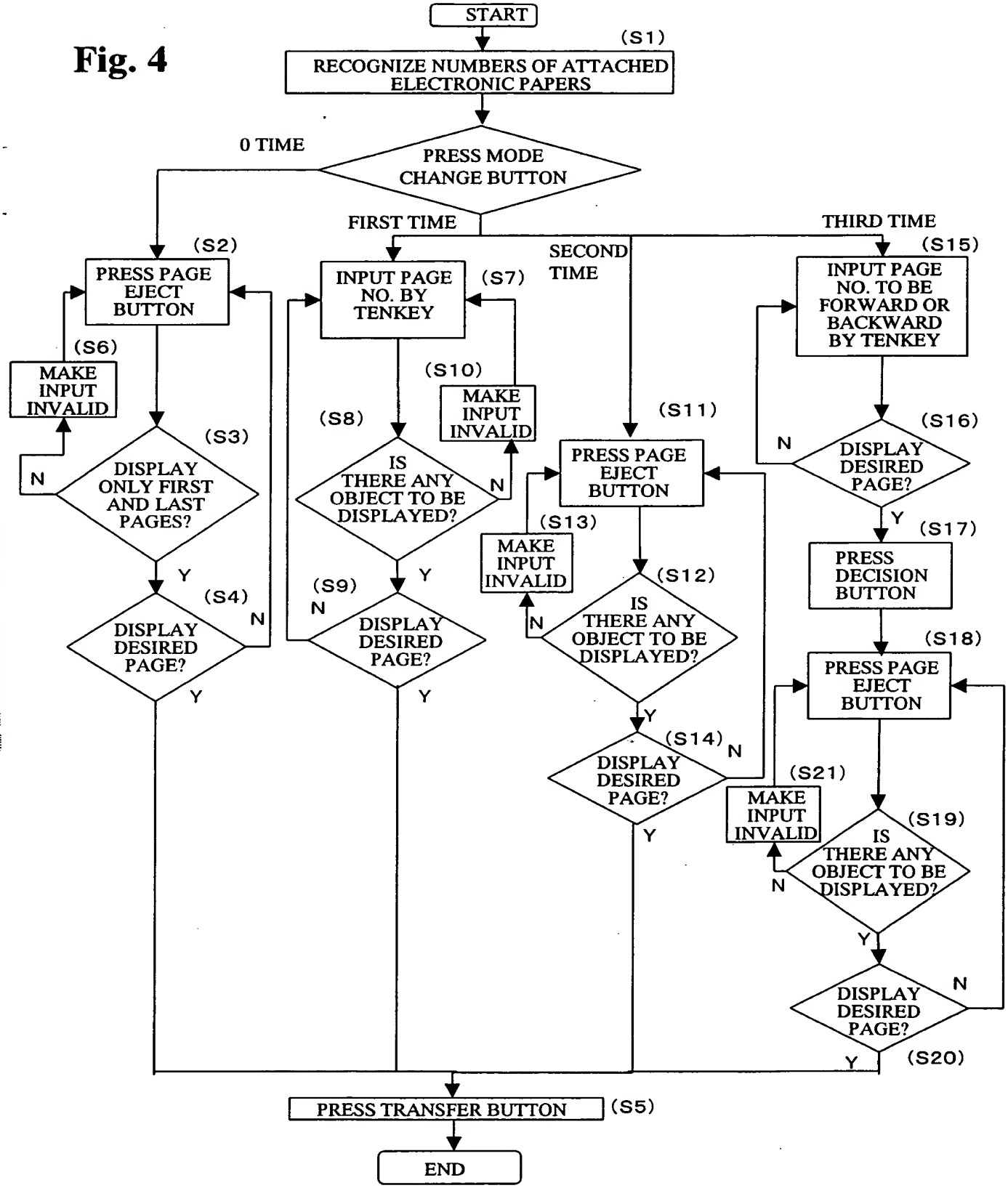
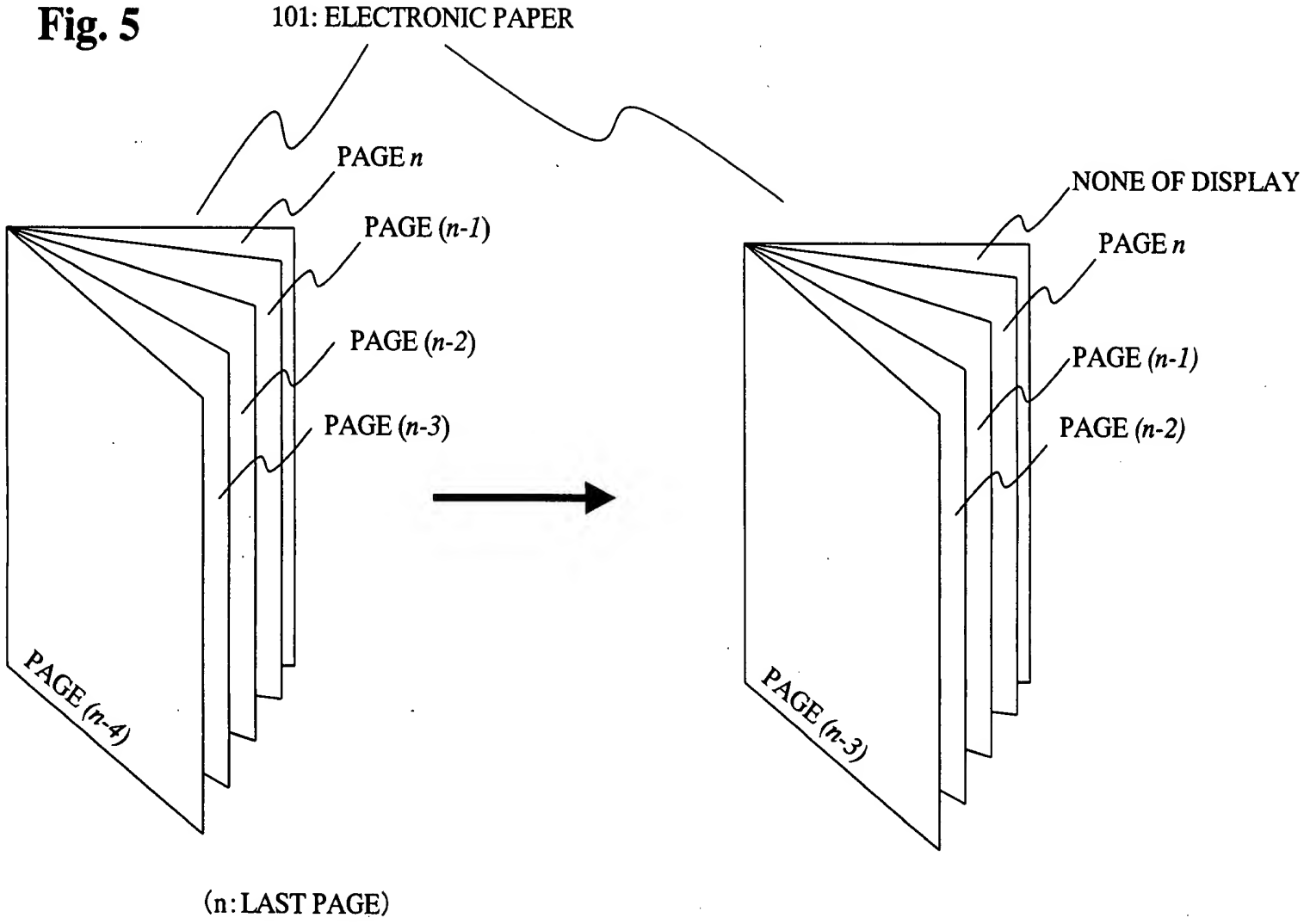

START
(S1)
RECOGNIZE NUMBERS OF ATTACHED ELECTRONIC PAPERS
PRESS MODE CHANGE BUTTON
0 TIME
FIRST TIME
SECOND TIME
THIRD TIME
(S2)
PRESS PAGE EJECT BUTTON
(S6)
MAKE INPUT INVALID
(S3)
DISPLAY ONLY FIRST AND LAST PAGES?
N
Y
(S4)
DISPLAY DESIRED PAGE?
N
Y
INPUT PAGE NO. BY TENKEY
(S7)
(S10)
MAKE INPUT INVALID
(S8)
IS THERE ANY OBJECT TO BE DISPLAYED?
N
Y
(S9)
DISPLAY DESIRED PAGE?
N
Y
(S11)
PRESS PAGE EJECT BUTTON
(S13)
MAKE INPUT INVALID
(S12)
IS THERE ANY OBJECT TO BE DISPLAYED?
N
Y
(S14)
DISPLAY DESIRED PAGE?
N
Y
(S15)
INPUT PAGE NO. TO BE FORWARD OR BACKWARD BY TENKEY
(S16)
DISPLAY DESIRED PAGE?
N
Y
(S17)
PRESS DECISION BUTTON
(S18)
PRESS PAGE EJECT BUTTON
(S21)
MAKE INPUT INVALID
(S19)
IS THERE ANY OBJECT TO BE DISPLAYED?
N
Y
DISPLAY DESIRED PAGE?
N
Y
(S20)
PRESS TRANSFER BUTTON
(S5)
END

Fig. 5



(n: LAST PAGE)

Fig. 6

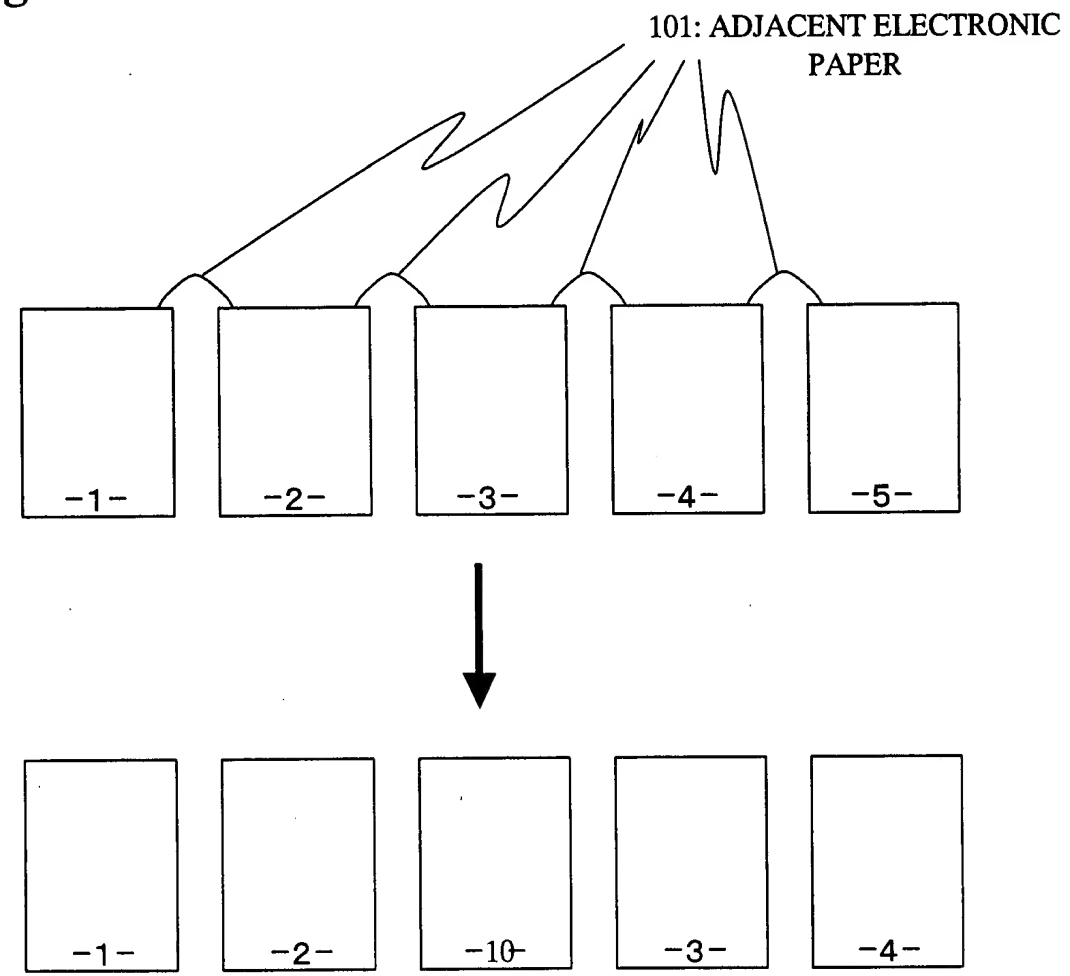


Fig. 7

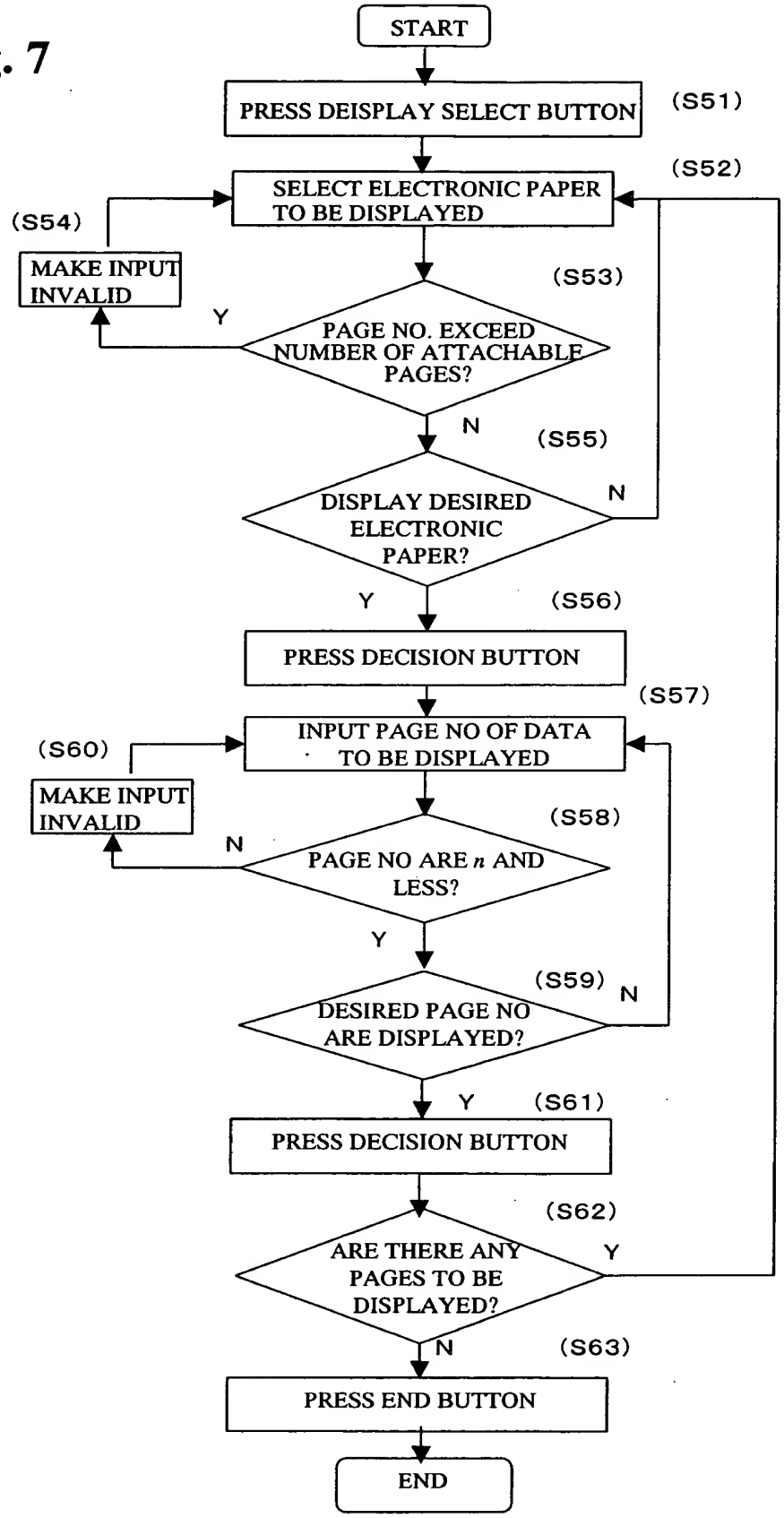

START
PRESS DEISPLAY SELECT BUTTON
(S51)
SELECT ELECTRONIC PAPER TO BE DISPLAYED
(S52)
(S54)
MAKE INPUT INVALID
(S53)
Y
PAGE NO. EXCEED NUMBER OF ATTACHABLE PAGES?
N
(S55)
DISPLAY DESIRED ELECTRONIC PAPER?
N
Y
(S56)
PRESS DECISION BUTTON
(S57)
INPUT PAGE NO OF DATA TO BE DISPLAYED
(S60)
MAKE INPUT INVALID
(S58)
N
PAGE NO ARE n AND LESS?
Y
(S59)
N
DESIRED PAGE NO ARE DISPLAYED?
Y
(S61)
PRESS DECISION BUTTON
(S62)
ARE THERE ANY PAGES TO BE DISPLAYED?
Y
N
(S63)
PRESS END BUTTON
END

Fig. 8

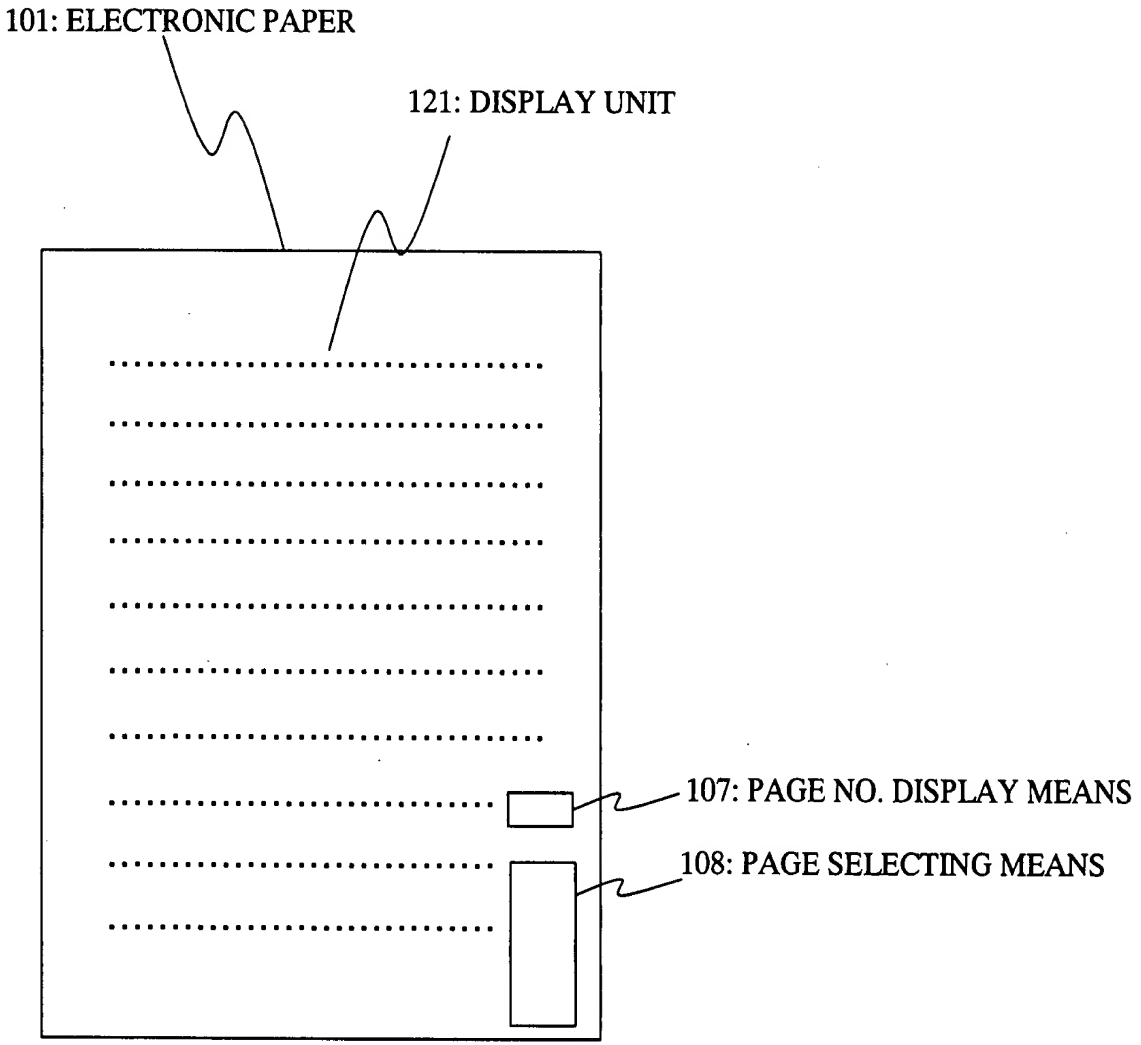

101: ELECTRONIC PAPER
121: DISPLAY UNIT
107: PAGE NO. DISPLAY MEANS
108: PAGE SELECTING MEANS

Fig. 9

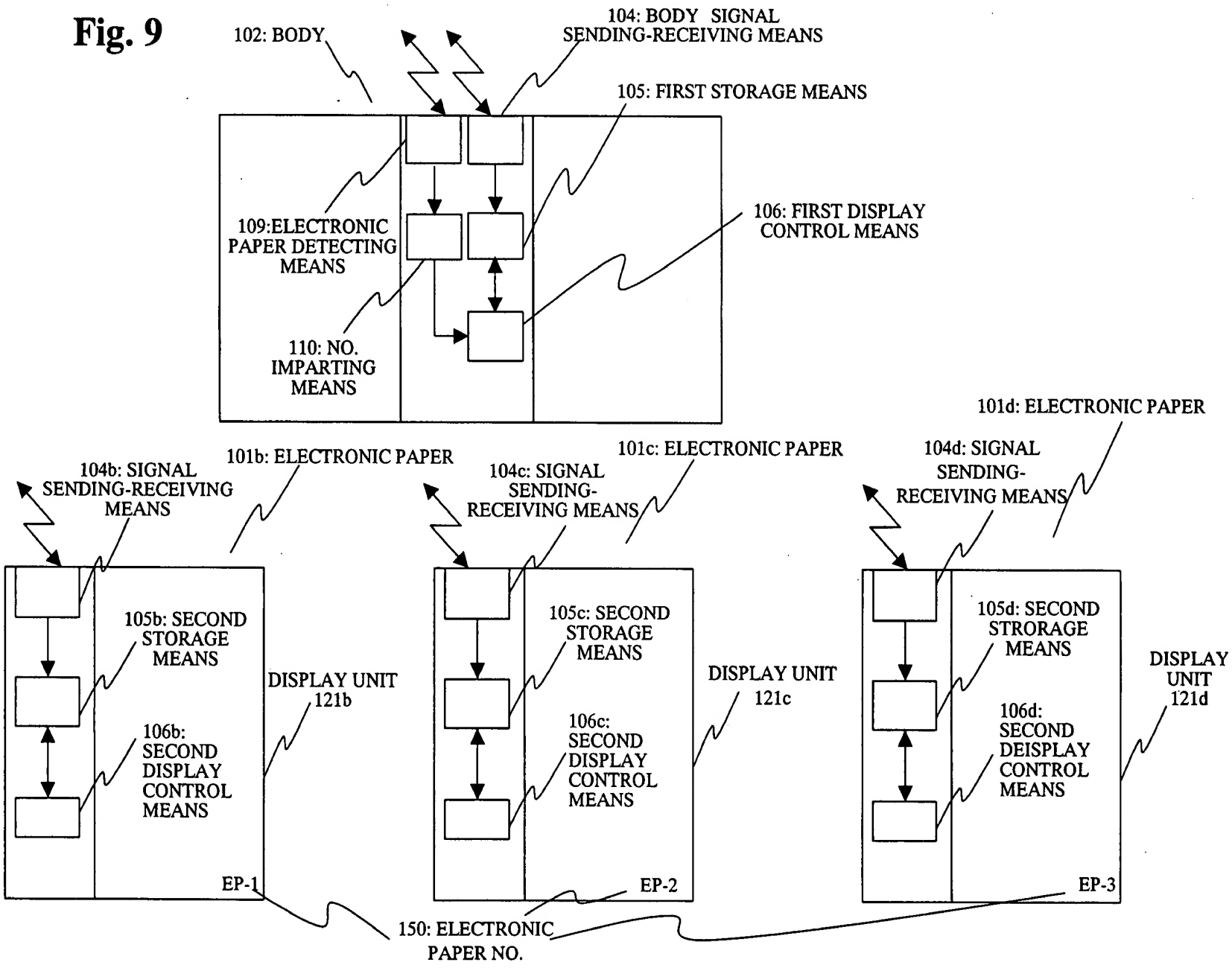

102: BODY
104: BODY SIGNAL SENDING-RECEIVING MEANS
105: FIRST STORAGE MEANS
109:ELECTRONIC PAPER DETECTING MEANS
106: FIRST DISPLAY CONTROL MEANS
110: NO. IMPARTING MEANS
101b: ELECTRONIC PAPER
101c: ELECTRONIC PAPER
101d: ELECTRONIC PAPER
104b: SIGNAL SENDING-RECEIVING MEANS
104c: SIGNAL SENDING-RECEIVING MEANS
104d: SIGNAL SENDING-RECEIVING MEANS
105b: SECOND STORAGE MEANS
105c: SECOND STORAGE MEANS
105d: SECOND STRORAGE MEANS
DISPLAY UNIT 121b
DISPLAY UNIT 121c
DISPLAY UNIT 121d
106b: SECOND DISPLAY CONTROL MEANS
106c: SECOND DISPLAY CONTROL MEANS
106d: SECOND DEISPLAY CONTROL MEANS
EP-1
EP-2
EP-3
150: ELECTRONIC PAPER NO.

Fig. 10(a)

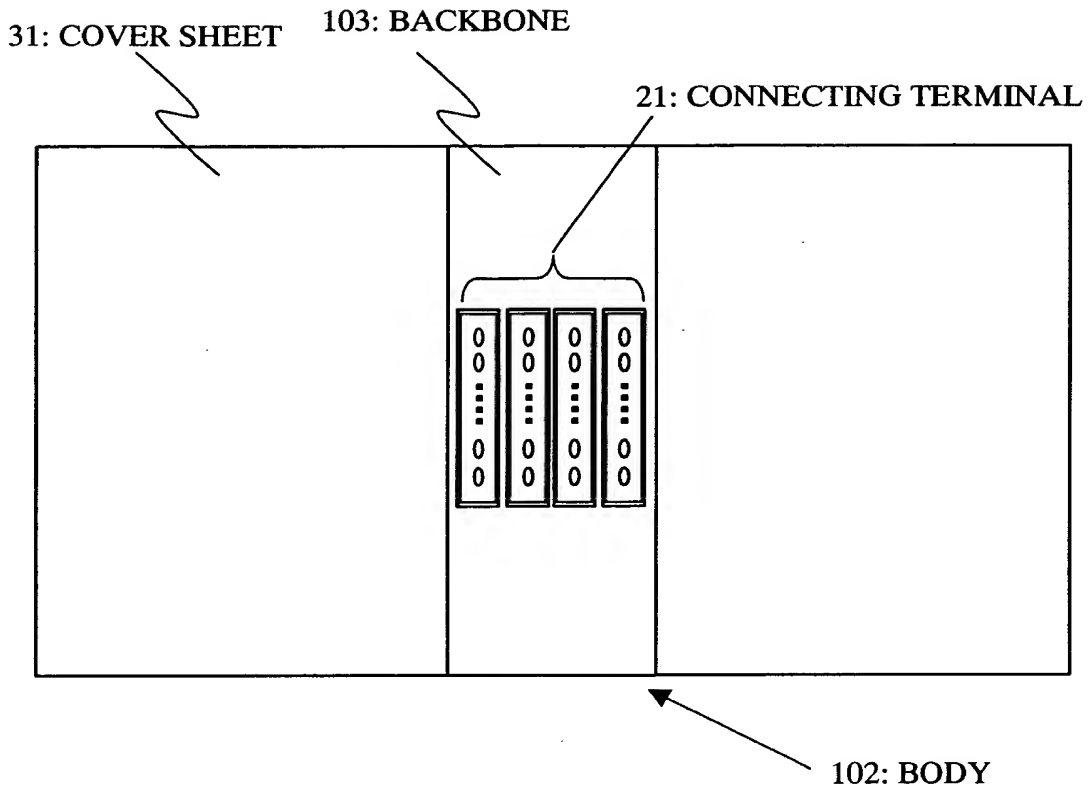


Fig. 10(b)

CONNECTING TERMINAL ID NO.	ORDER FROM COVER SHEET	CONNECTING ORDER ID NO.
1	1	C1
2	2	———
3	3	C2
4	4	———

Fig. 11

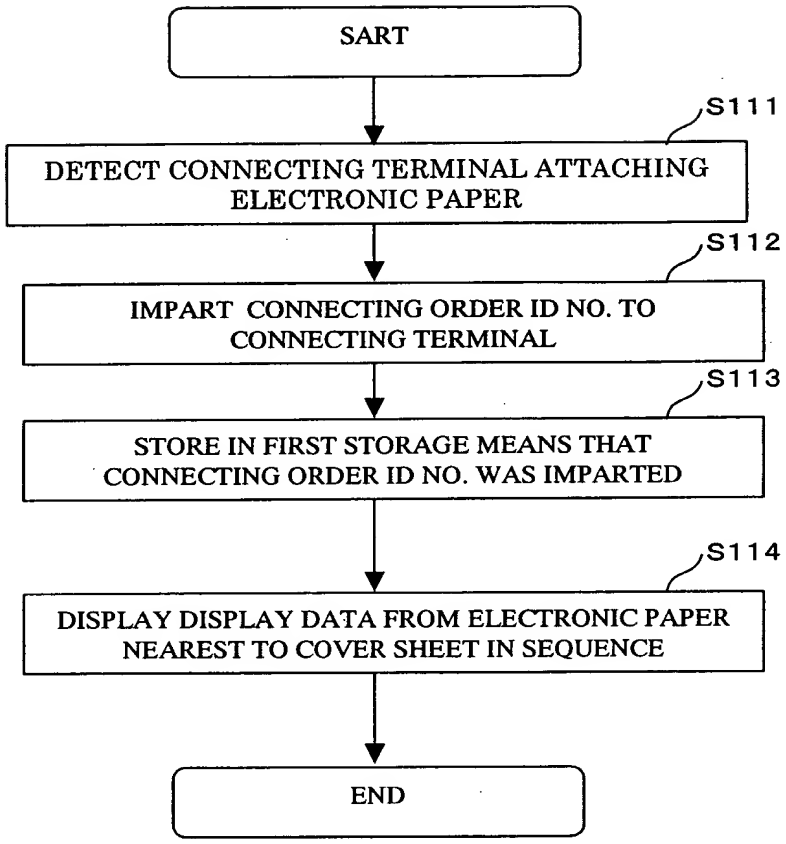

SART
S111
DETECT CONNECTING TERMINAL ATTACHING ELECTRONIC PAPER
S112
IMPART CONNECTING ORDER ID NO. TO CONNECTING TERMINAL
S113
STORE IN FIRST STORAGE MEANS THAT CONNECTING ORDER ID NO. WAS IMPARTED
S114
DISPLAY DISPLAY DATA FROM ELECTRONIC PAPER NEAREST TO COVER SHEET IN SEQUENCE
END

Fig. 12

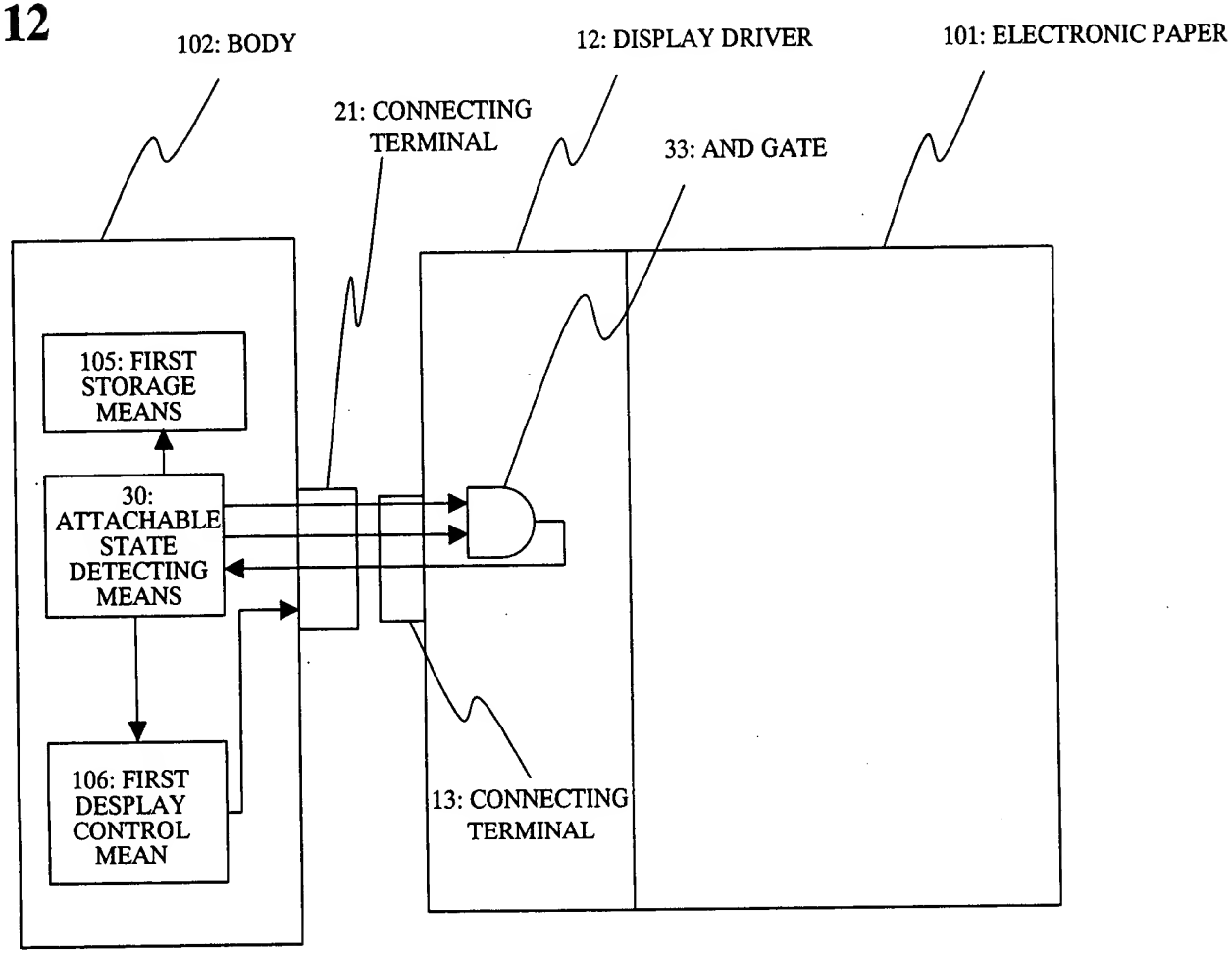

102: BODY
12: DISPLAY DRIVER
101: ELECTRONIC PAPER
21: CONNECTING TERMINAL
33: AND GATE
105: FIRST STORAGE MEANS
30: ATTACHABLE STATE DETECTING MEANS
106: FIRST DESPLAY CONTROL MEAN
13: CONNECTING TERMINAL

Fig. 13

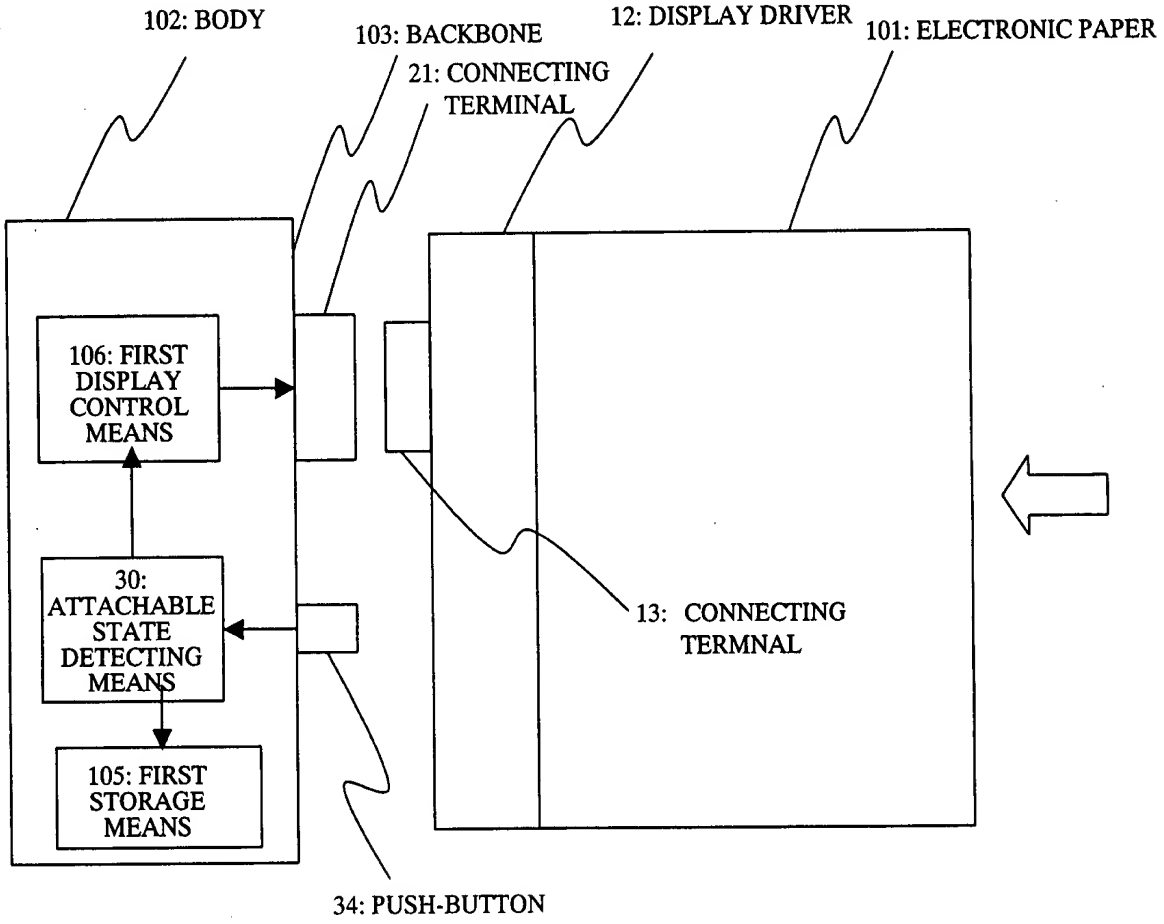

102: BODY
103: BACKBONE
21: CONNECTING TERMINAL
12: DISPLAY DRIVER
101: ELECTRONIC PAPER
106: FIRST DISPLAY CONTROL MEANS
30: ATTACHABLE STATE DETECTING MEANS
105: FIRST STORAGE MEANS
13: CONNECTING TERMNAL
34: PUSH-BUTTON

Fig. 14

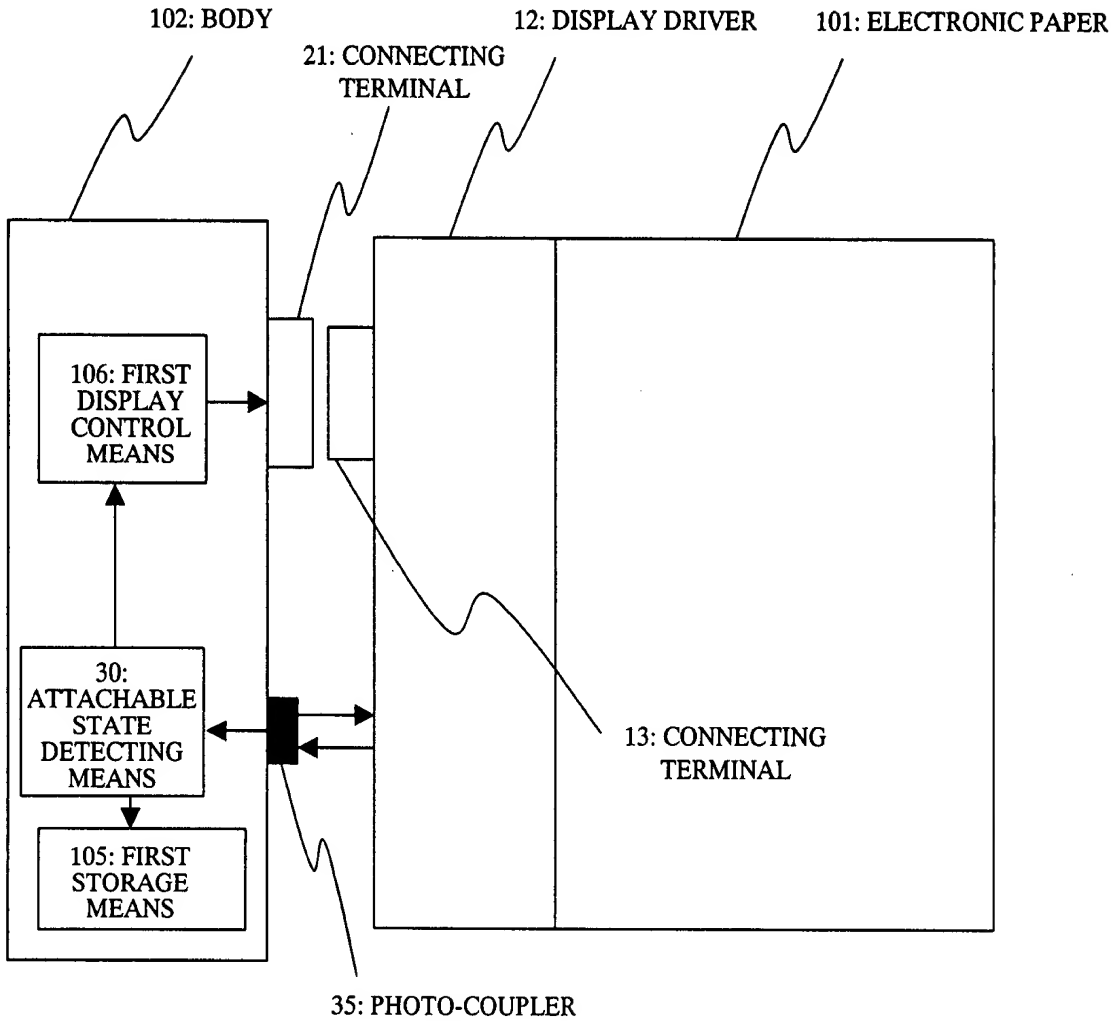

102: BODY
21: CONNECTING TERMINAL
12: DISPLAY DRIVER
101: ELECTRONIC PAPER
106: FIRST DISPLAY CONTROL MEANS
30: ATTACHABLE STATE DETECTING MEANS
105: FIRST STORAGE MEANS
13: CONNECTING TERMINAL
35: PHOTO-COUPLER

Fig. 15

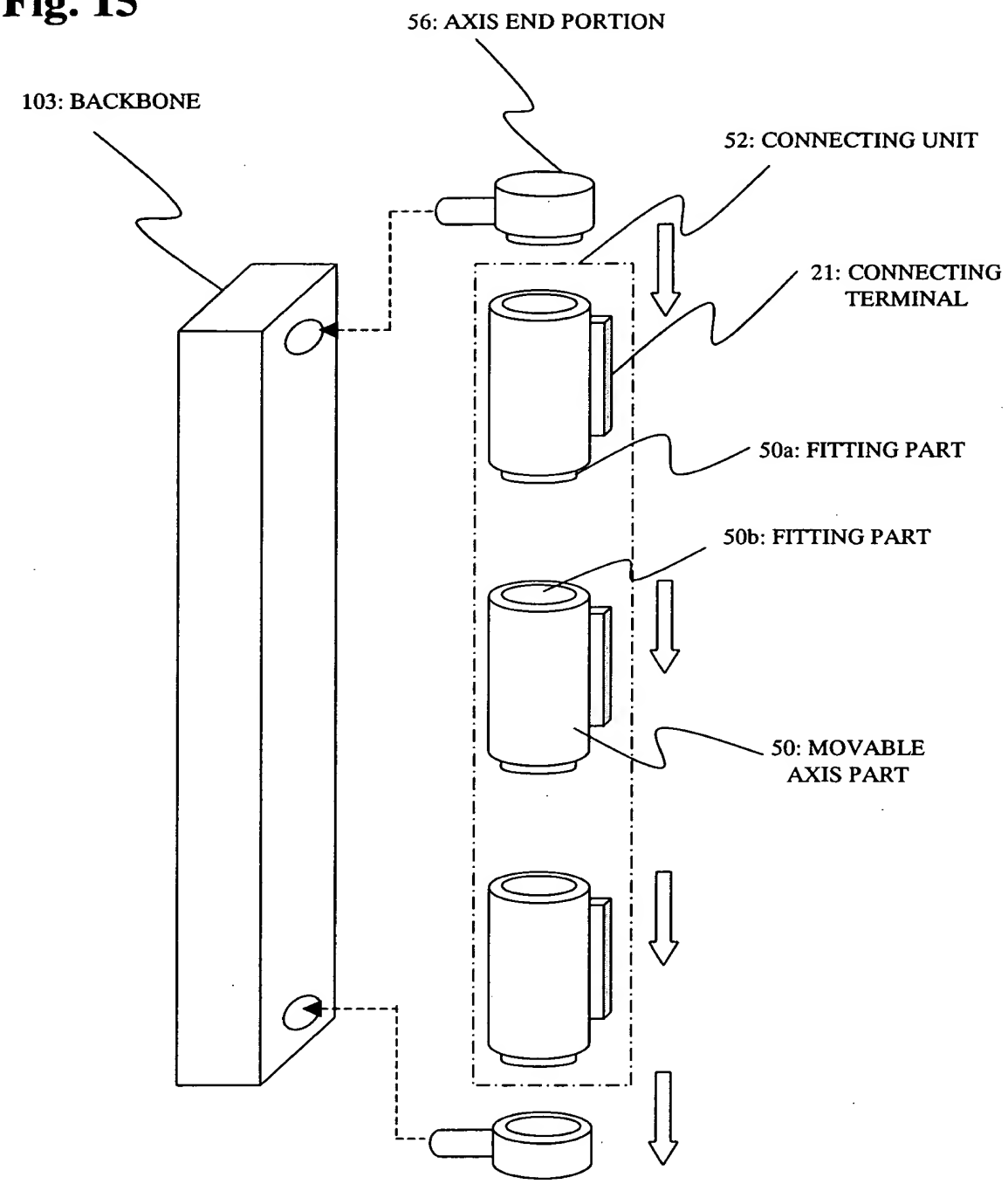

56: AXIS END PORTION
103: BACKBONE
52: CONNECTING UNIT
21: CONNECTING TERMINAL
50a: FITTING PART
50b: FITTING PART
50: MOVABLE AXIS PART

Fig. 16(a)

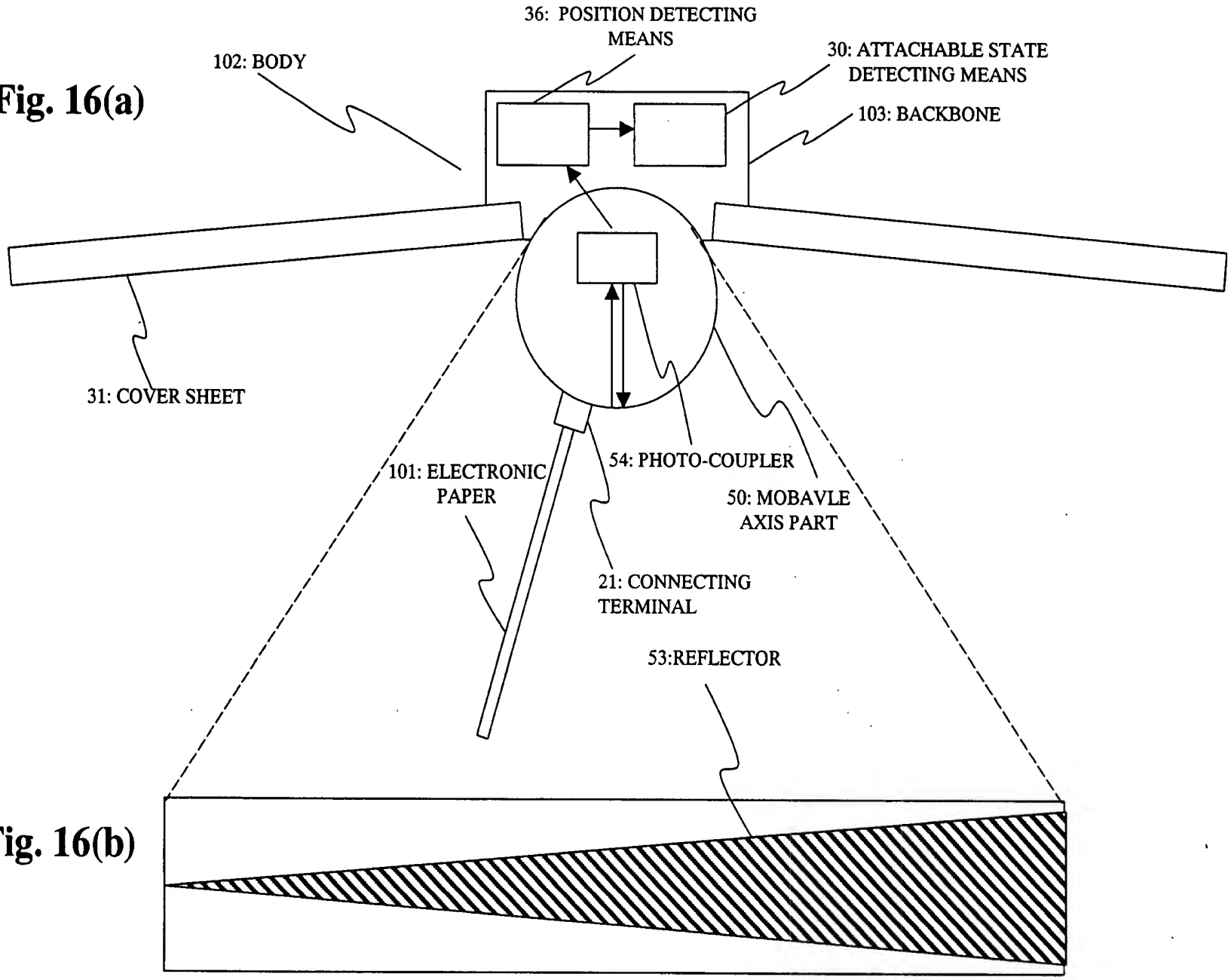


Fig. 16(b)

Fig. 17(a)

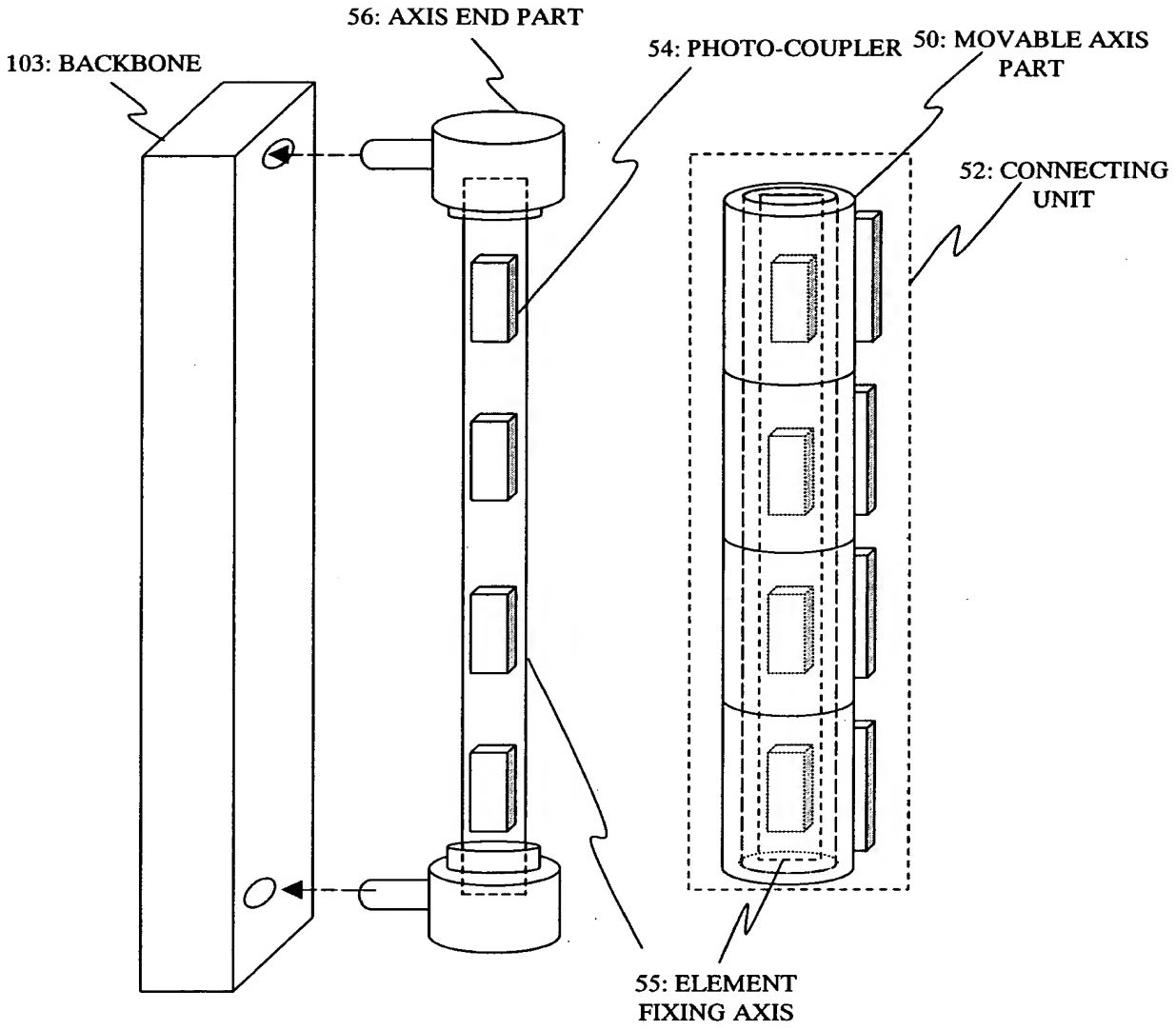


Fig. 17(b)

CONNECTING TERMINAL ID NO.	ORDER FROM COVER SHEET	CONNECTING ORDER ID NO.
1	2	C1
2	1	———
3	4	C2
4	3	———

Fig. 18

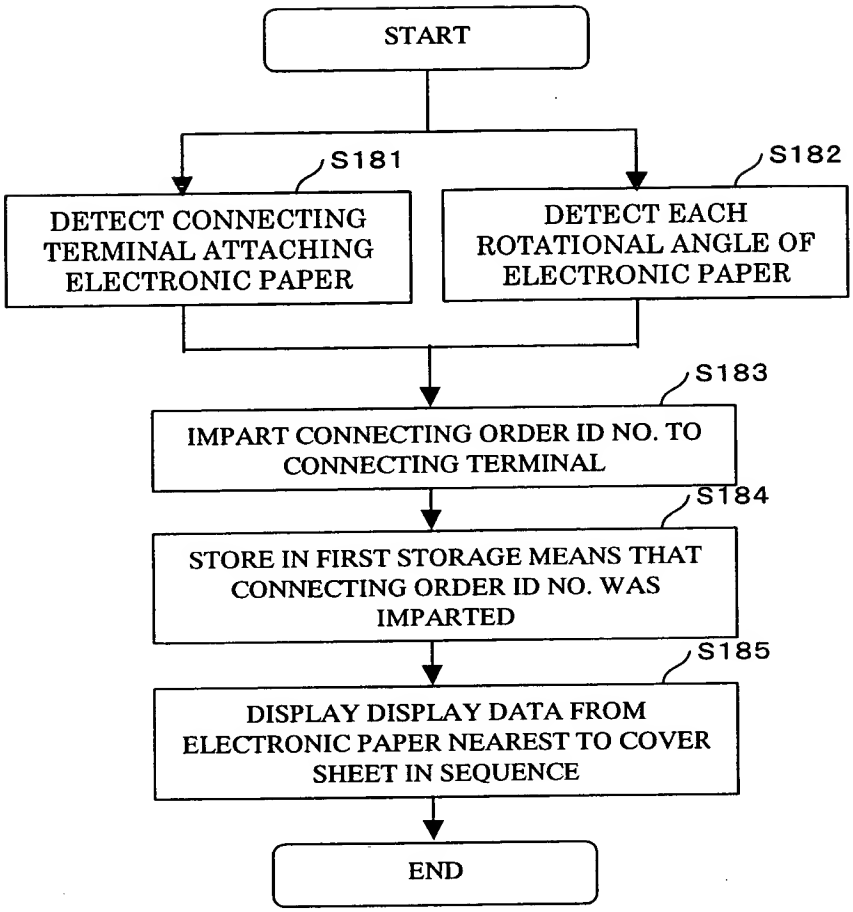

START
S181
DETECT CONNECTING TERMINAL ATTACHING ELECTRONIC PAPER
S182
DETECT EACH ROTATIONAL ANGLE OF ELECTRONIC PAPER
S183
IMPART CONNECTING ORDER ID NO. TO CONNECTING TERMINAL
S184
STORE IN FIRST STORAGE MEANS THAT CONNECTING ORDER ID NO. WAS IMPARTED
S185
DISPLAY DISPLAY DATA FROM ELECTRONIC PAPER NEAREST TO COVER SHEET IN SEQUENCE
END

Fig. 19

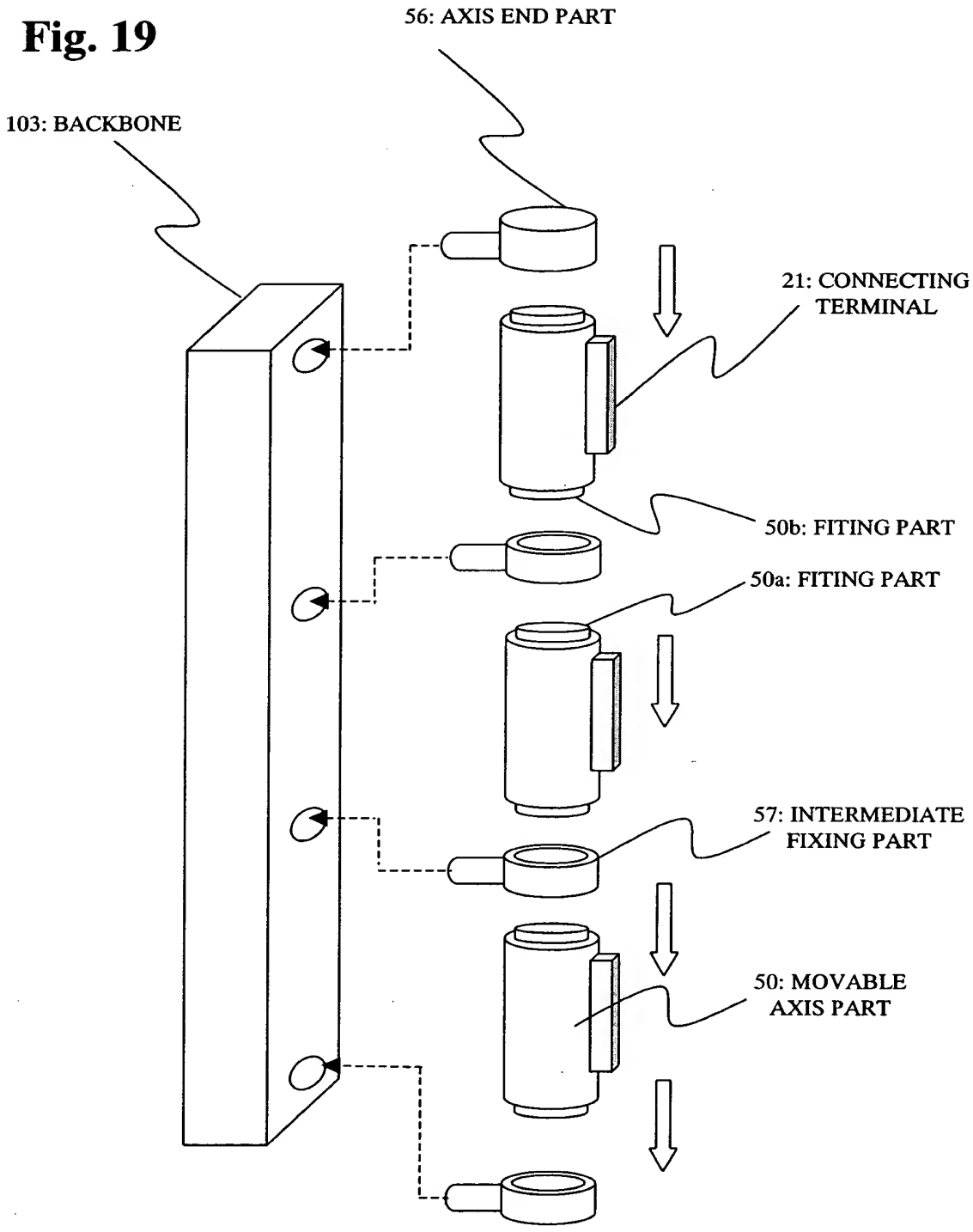

56: AXIS END PART
103: BACKBONE
21: CONNECTING TERMINAL
50b: FITING PART
50a: FITING PART
57: INTERMEDIATE FIXING PART
50: MOVABLE AXIS PART

Fig. 20

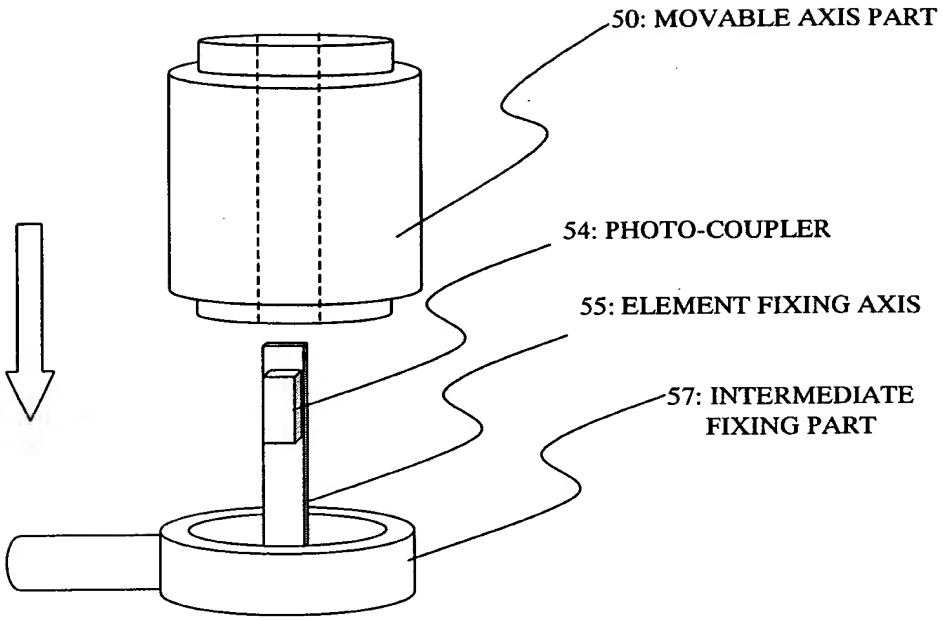

50: MOVABLE AXIS PART
54: PHOTO-COUPLER
55: ELEMENT FIXING AXIS
57: INTERMEDIATE FIXING PART

Fig. 21

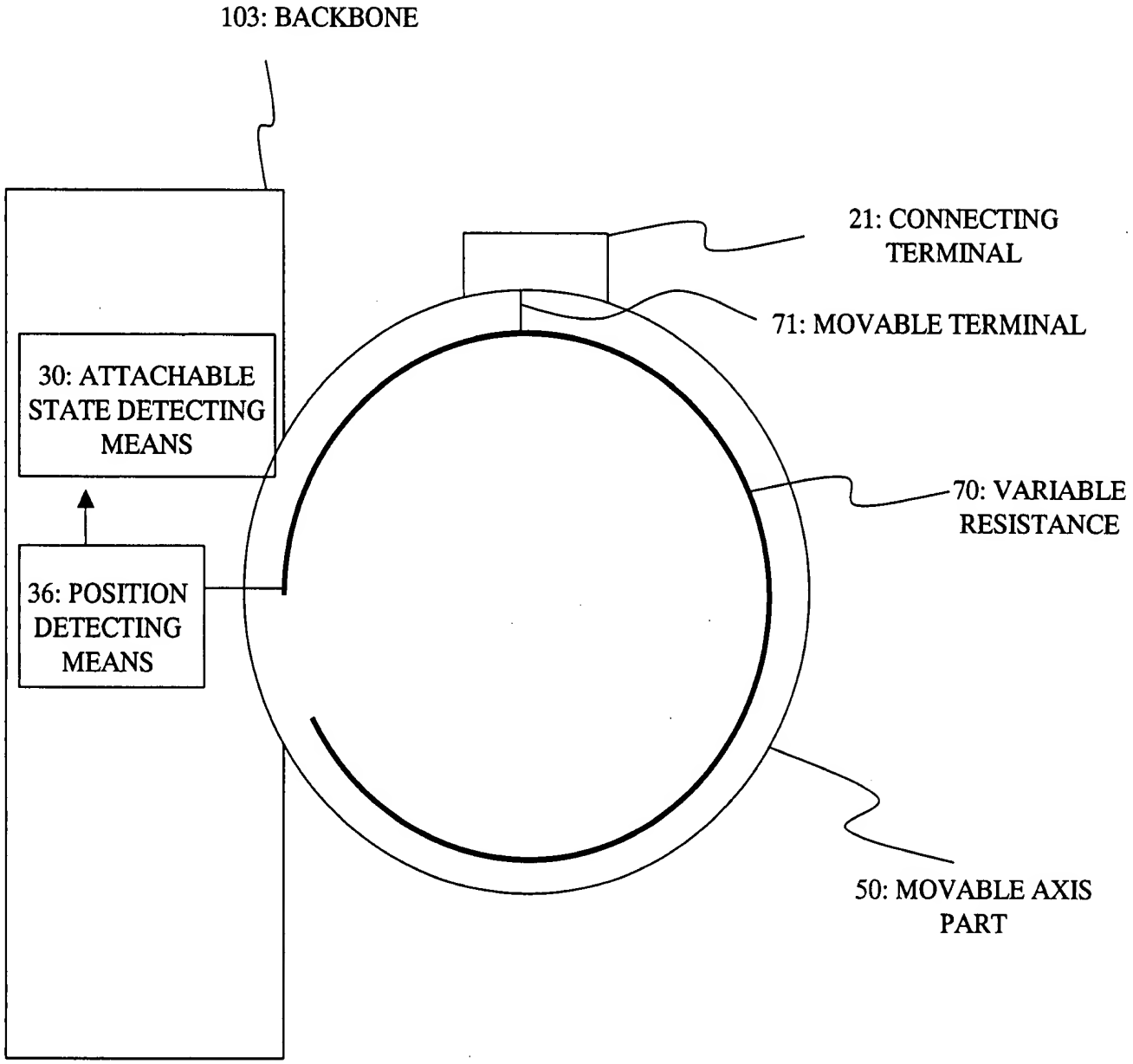

103: BACKBONE
21: CONNECTING TERMINAL
71: MOVABLE TERMINAL
30: ATTACHABLE STATE DETECTING MEANS
70: VARIABLE RESISTANCE
36: POSITION DETECTING MEANS
50: MOVABLE AXIS PART

Fig. 22(a)

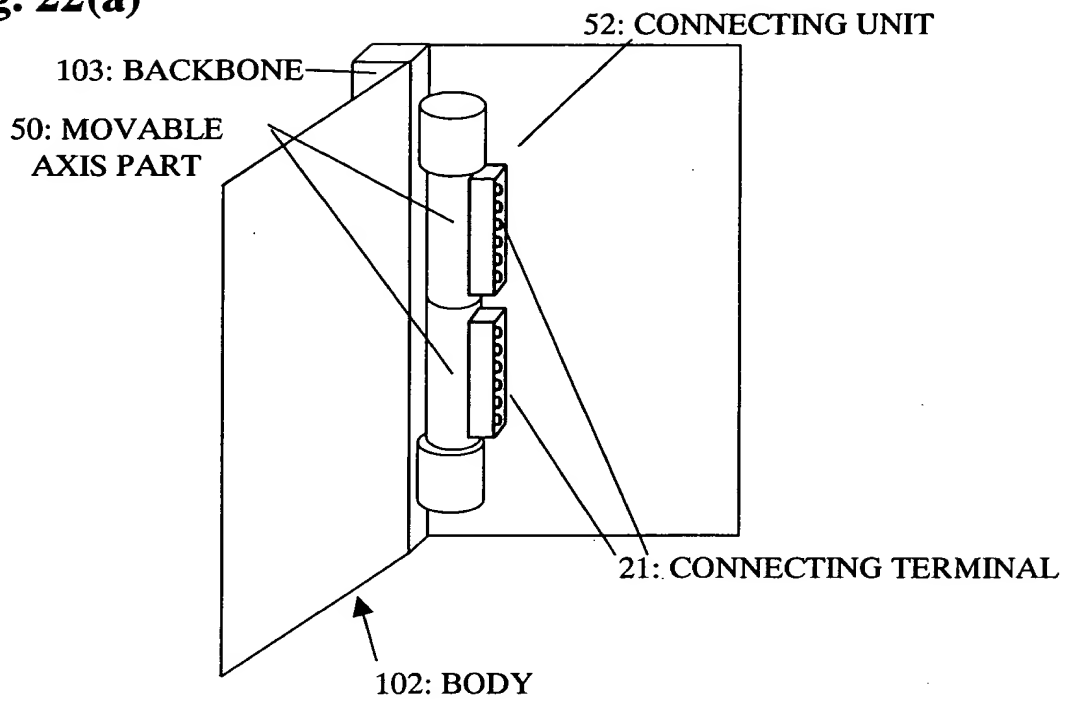


Fig. 22(b)

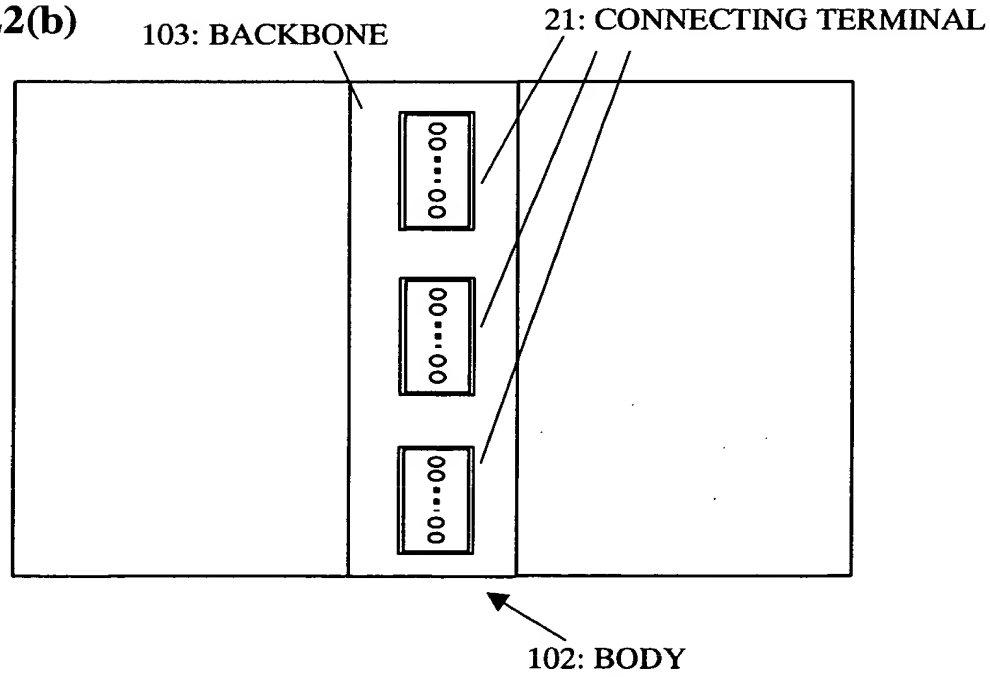


Fig. 23

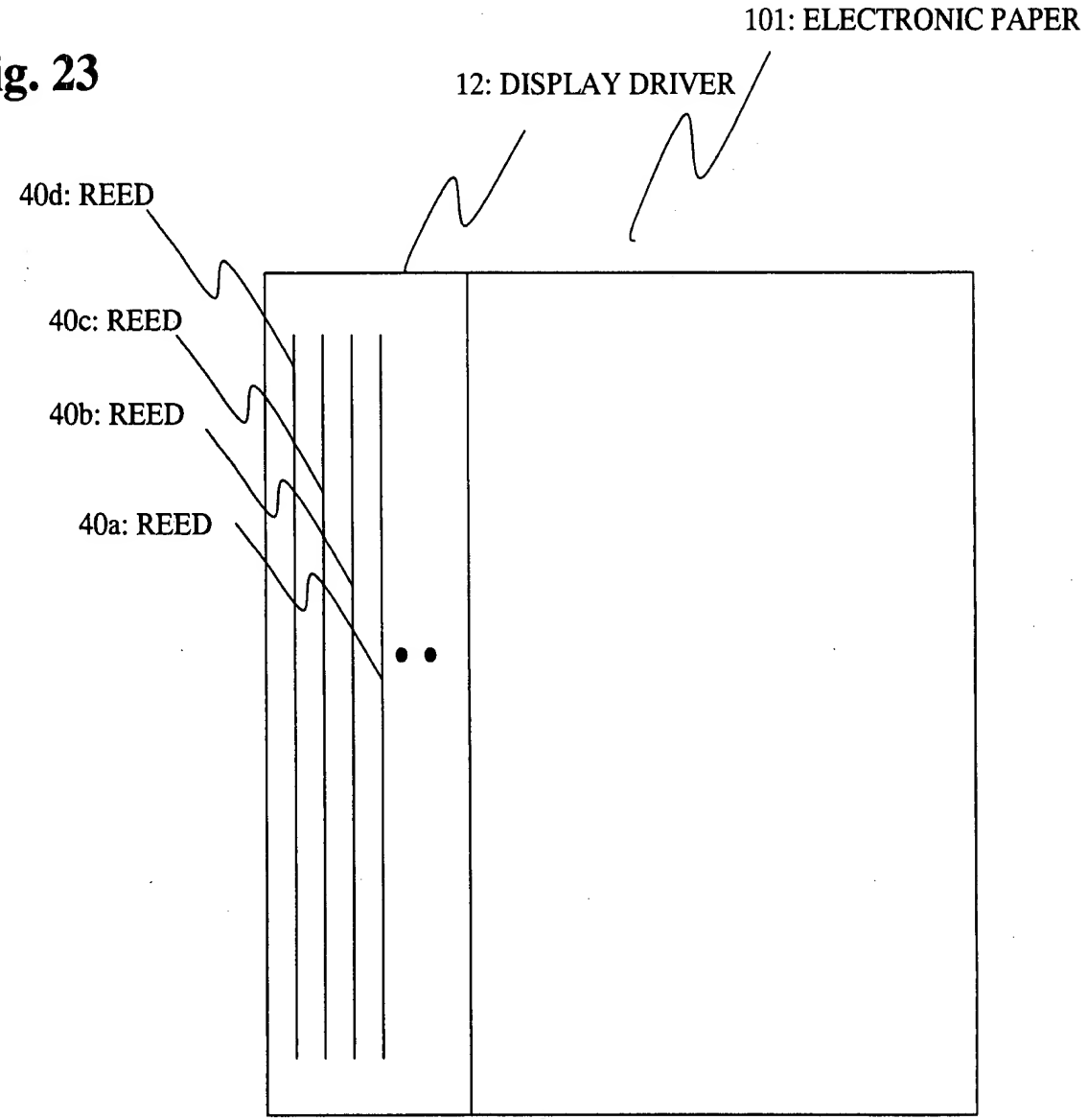

101: ELECTRONIC PAPER
12: DISPLAY DRIVER
40d: REED
40c: REED
40b: REED
40a: REED

Fig. 24

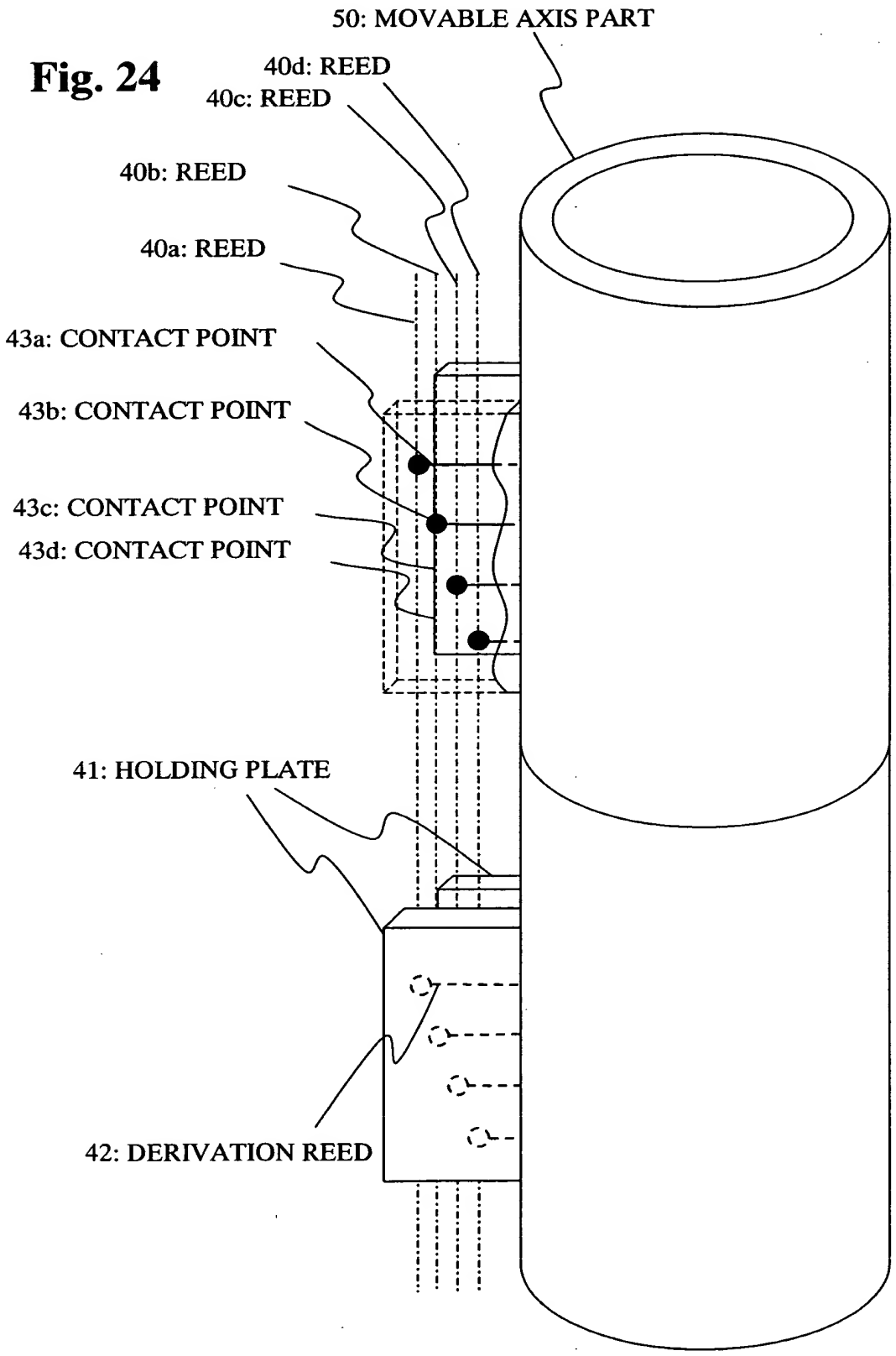

50: MOVABLE AXIS PART
40d: REED
40c: REED
40b: REED
40a: REED
43a: CONTACT POINT
43b: CONTACT POINT
43c: CONTACT POINT
43d: CONTACT POINT
41: HOLDING PLATE
42: DERIVATION REED

Fig. 25

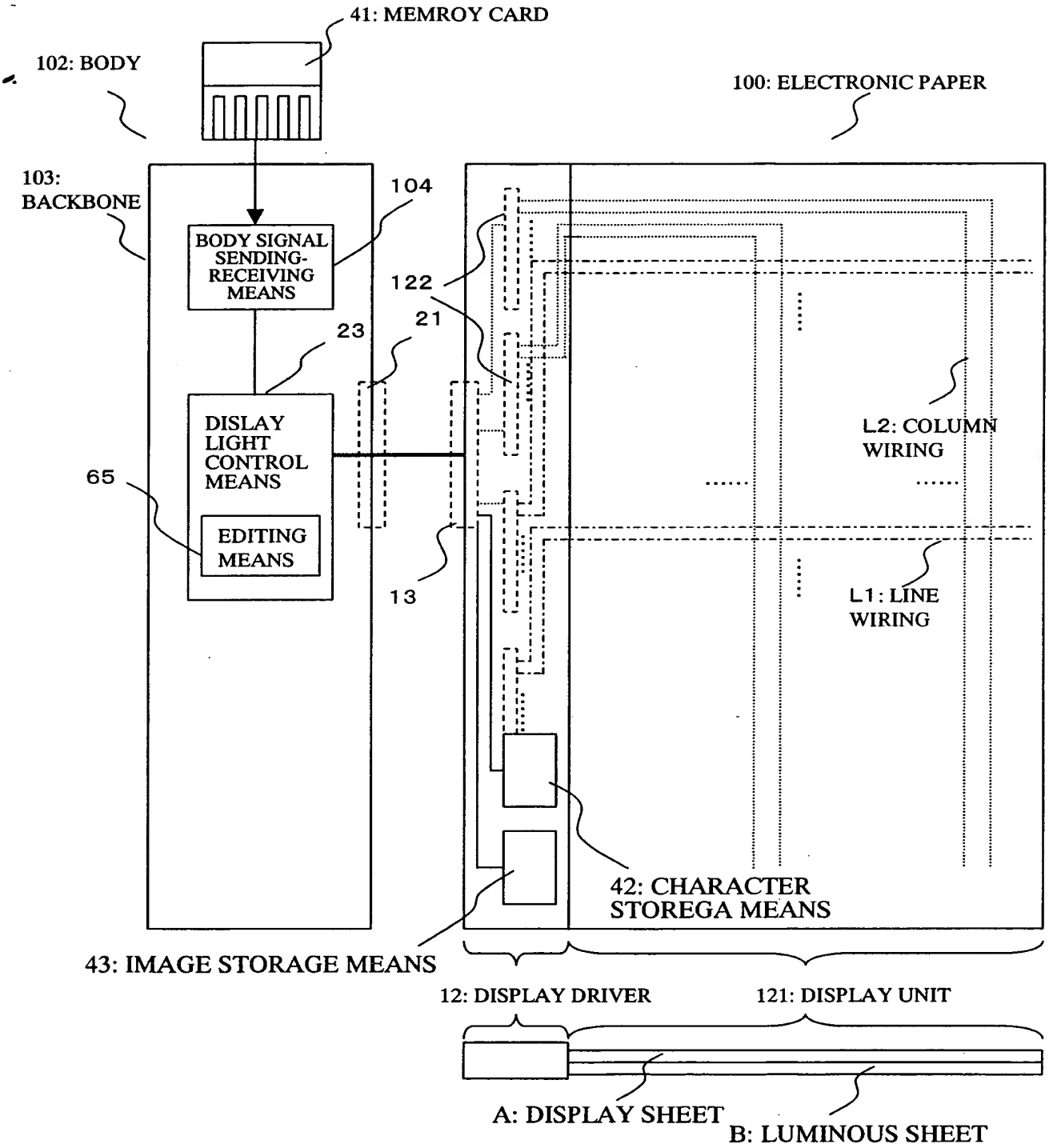

41: MEMROY CARD
102: BODY
100: ELECTRONIC PAPER
103:
BACKBONE
104
BODY SIGNAL SENDING-RECEIVING MEANS
122
21
23
DISLAY LIGHT CONTROL MEANS
65
EDITING MEANS
13
L2: COLUMN WIRING
L1: LINE WIRING
42: CHARACTER STOREGA MEANS
43: IMAGE STORAGE MEANS
12: DISPLAY DRIVER
121: DISPLAY UNIT
A: DISPLAY SHEET
B: LUMINOUS SHEET

Fig. 26(a)

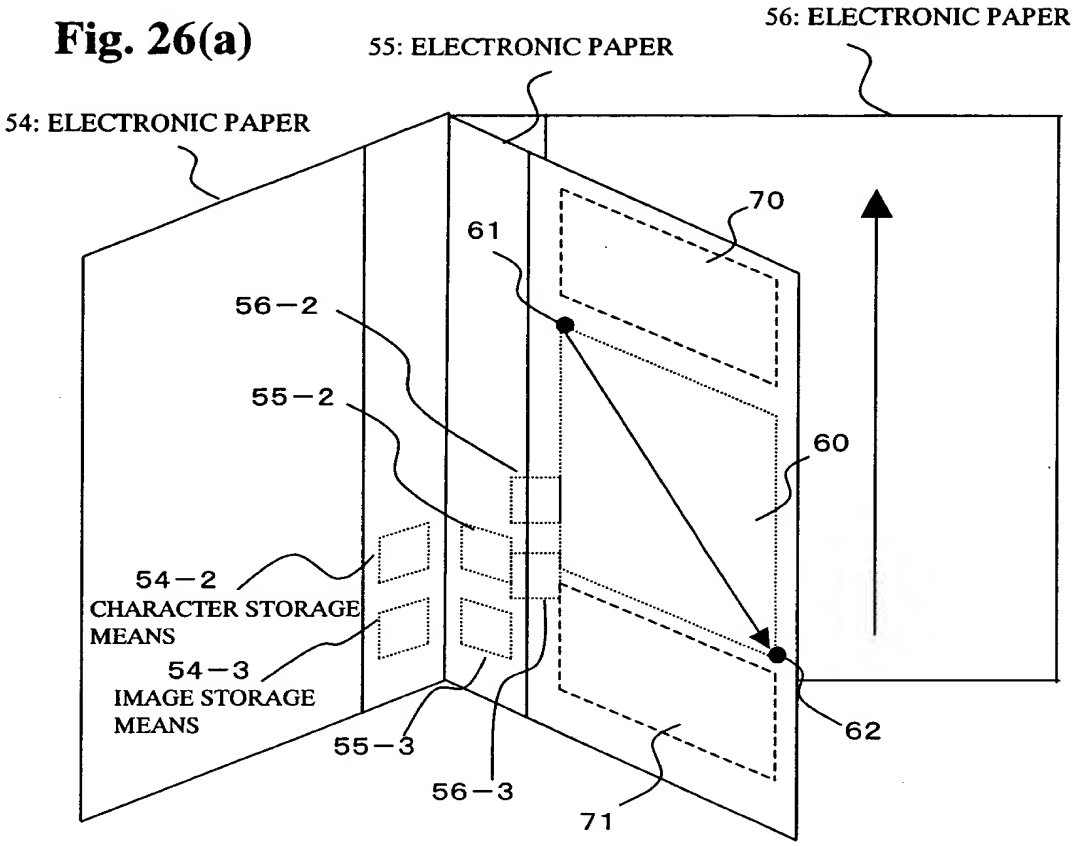


Fig. 26(b)

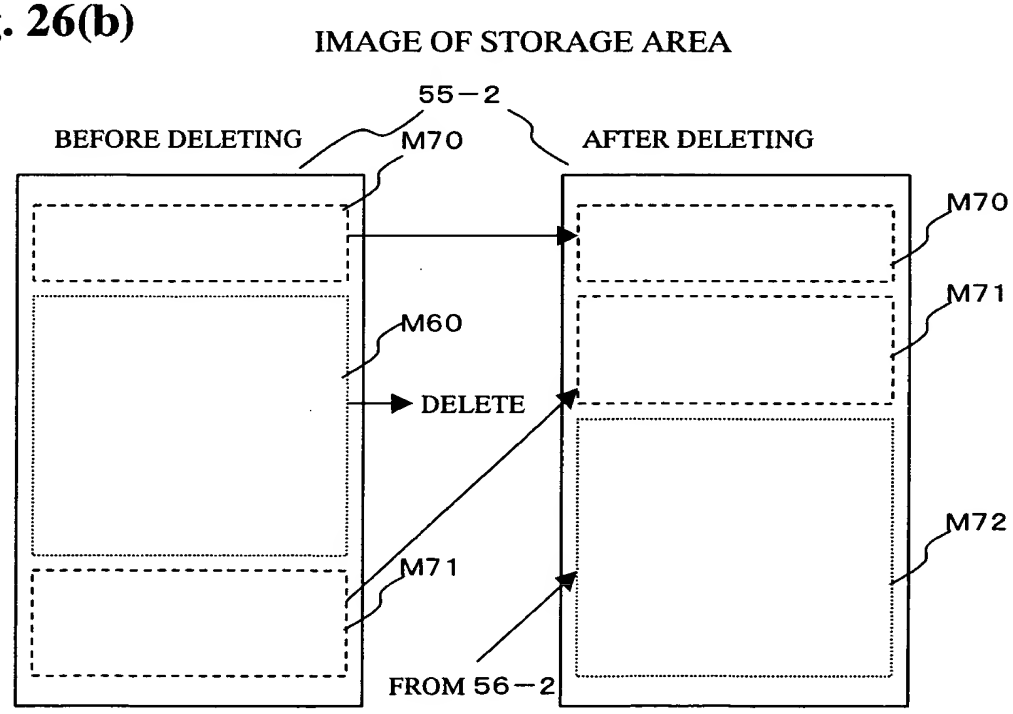


Fig. 27(a)

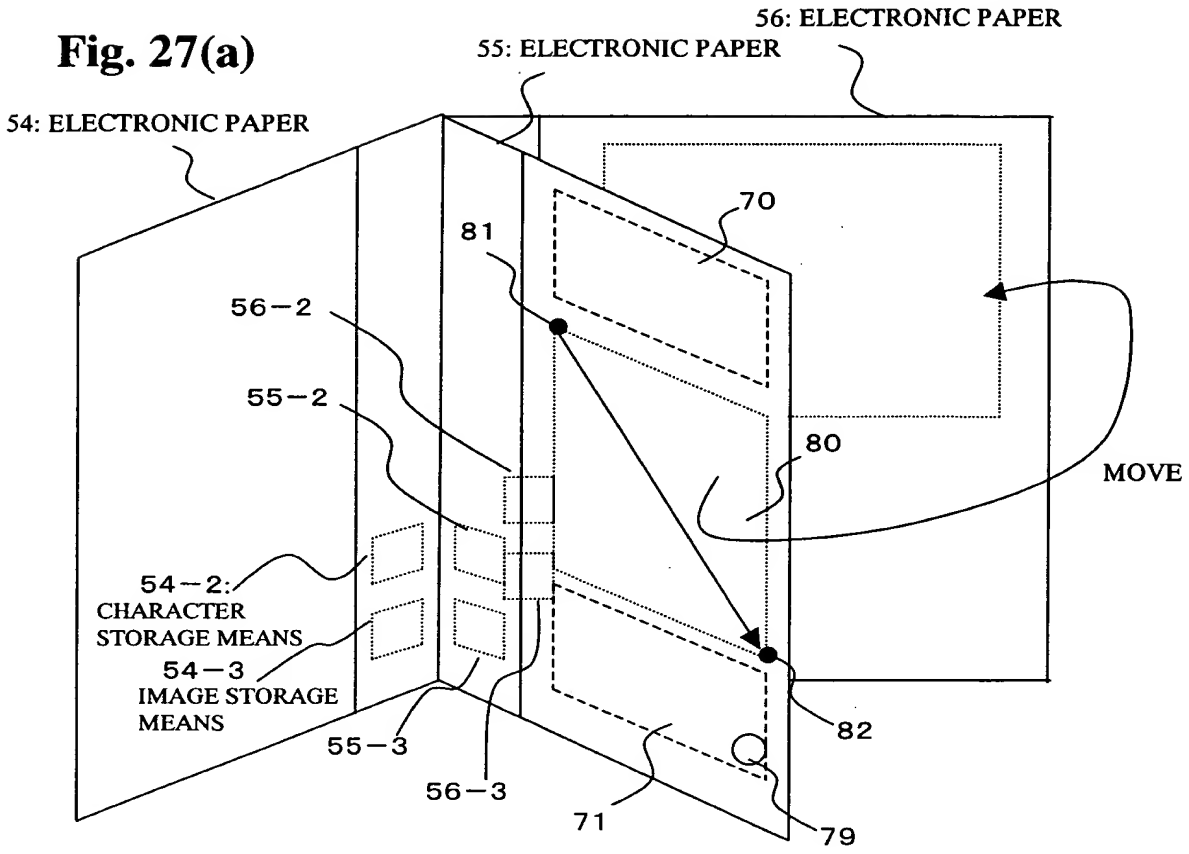


Fig. 27(b)

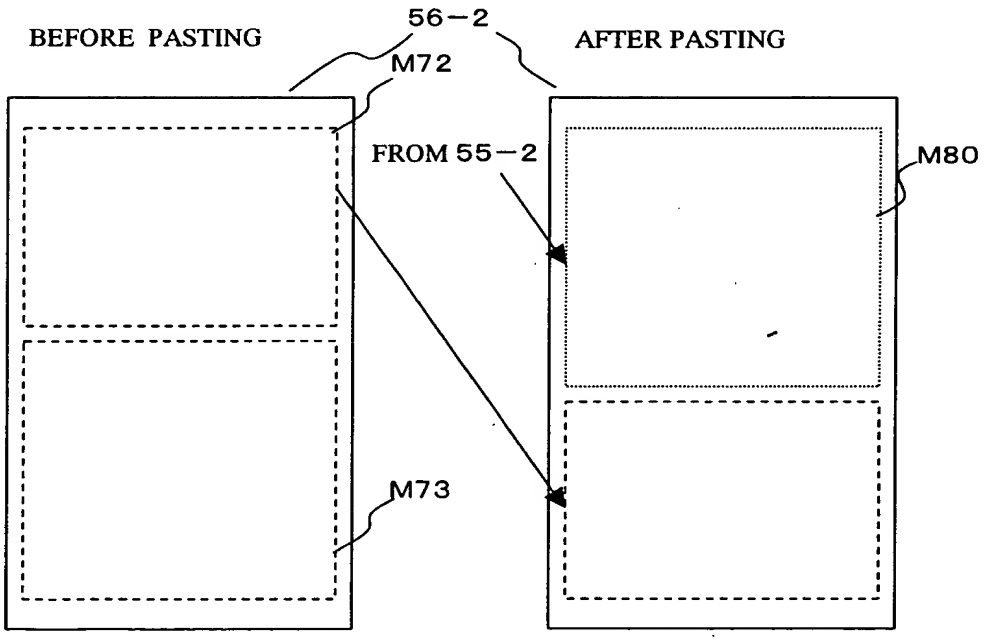


Fig. 28(a)

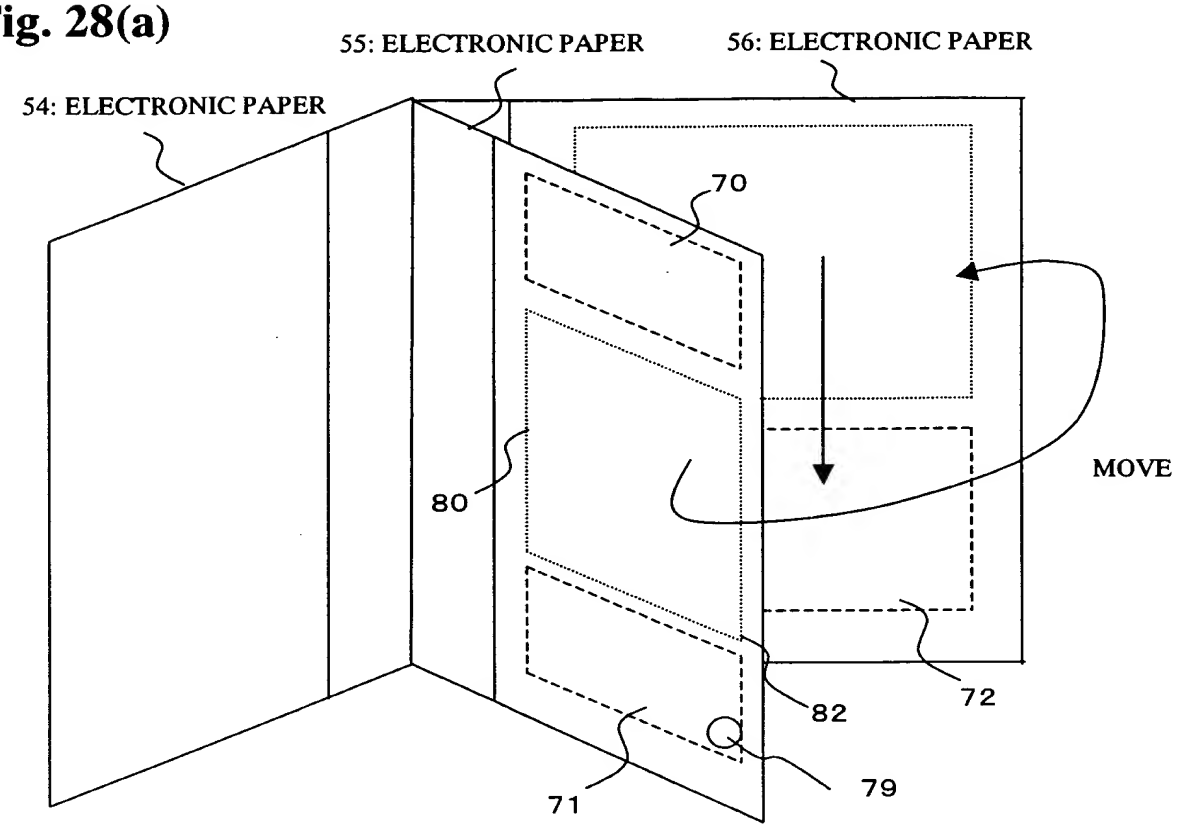


Fig. 28(b)

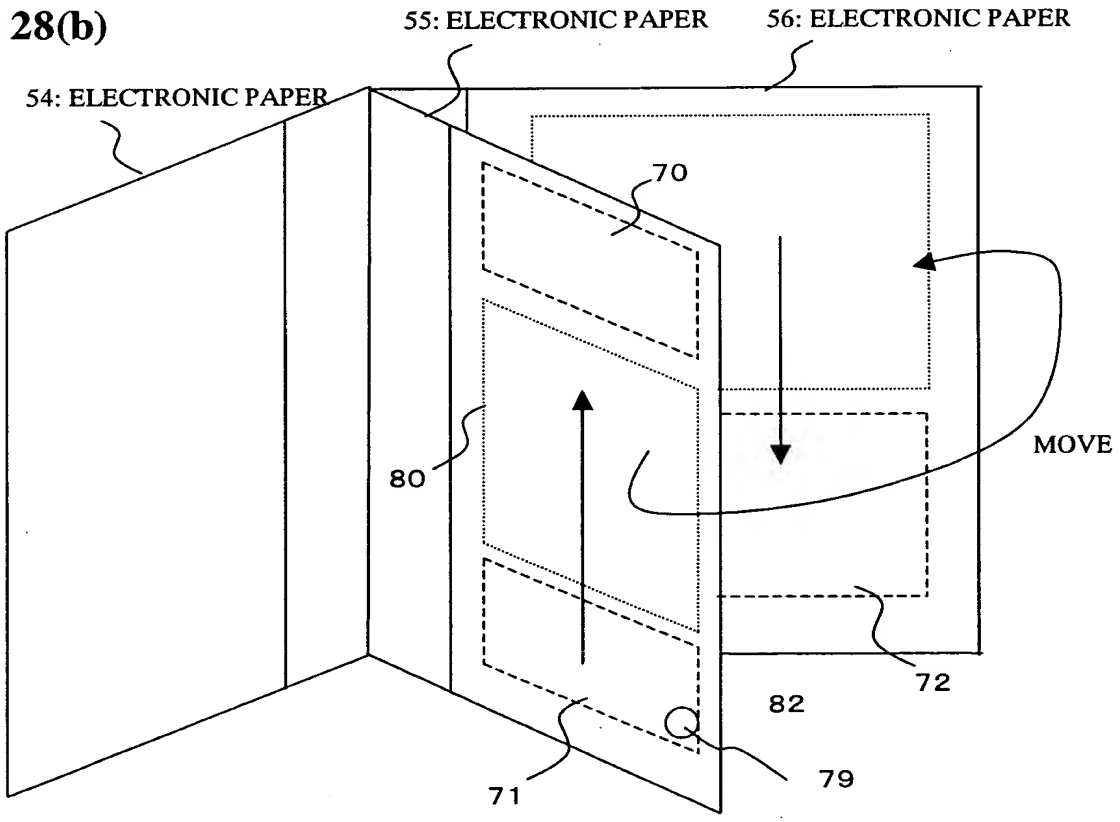


Fig. 29

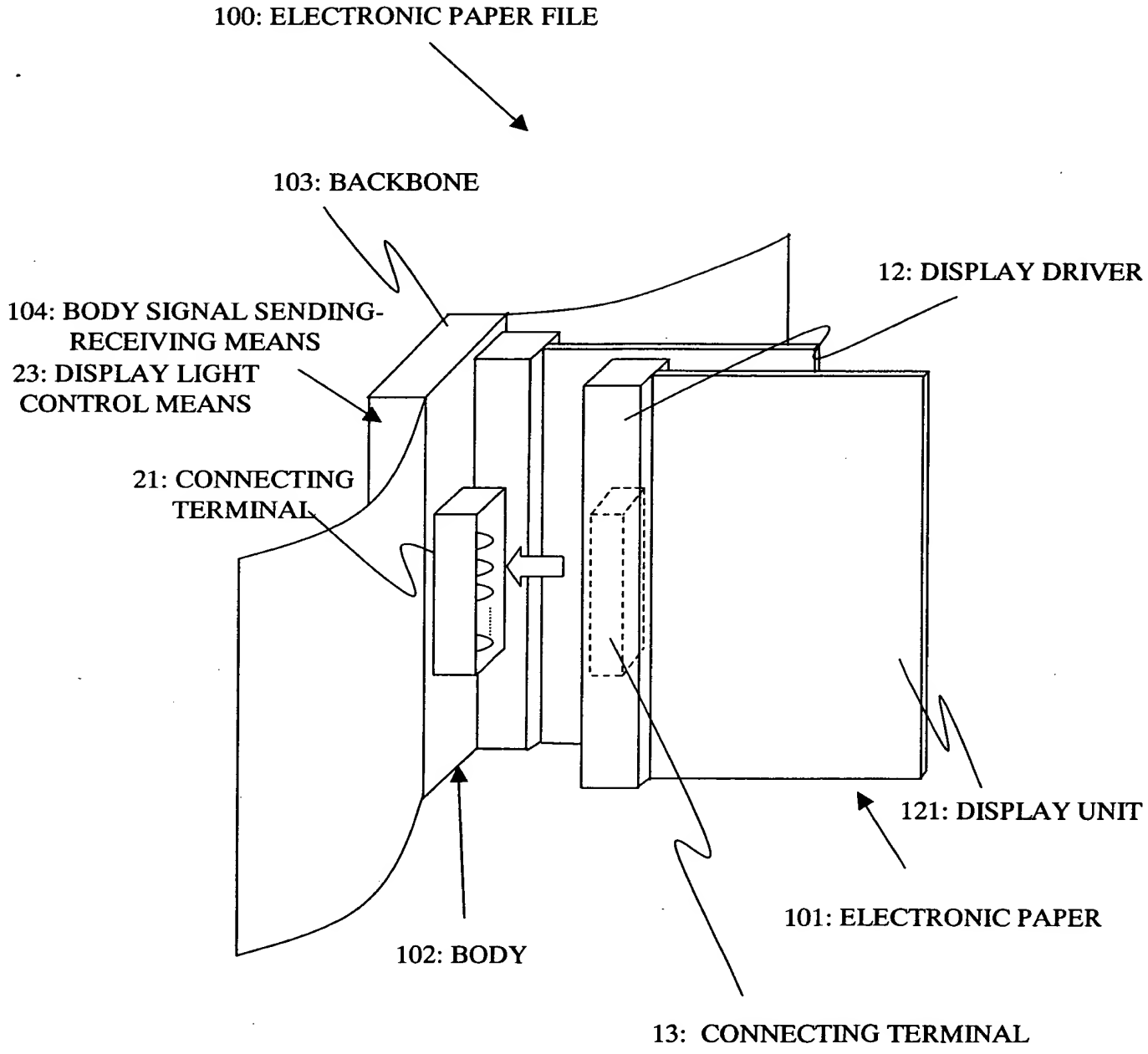
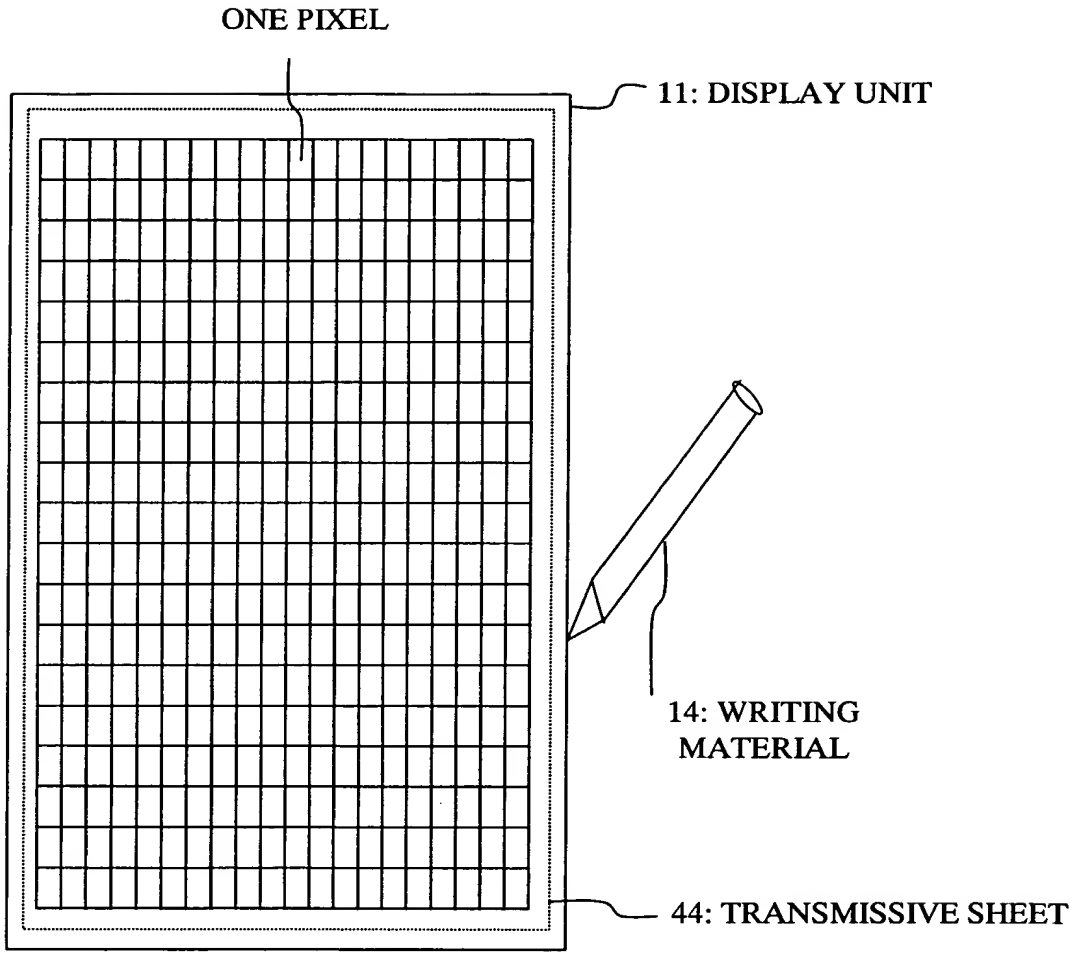

100: ELECTRONIC PAPER FILE
103: BACKBONE
12: DISPLAY DRIVER
104: BODY SIGNAL SENDING-RECEIVING MEANS
23: DISPLAY LIGHT CONTROL MEANS
21: CONNECTING TERMINAL
121: DISPLAY UNIT
101: ELECTRONIC PAPER
102: BODY
13: CONNECTING TERMINAL

Fig. 30


ONE PIXEL
11: DISPLAY UNIT
14: WRITING MATERIAL
44: TRANSMISSIVE SHEET